







TEST REPORT IEC 60950-1 Information Technology Equipment – Safety – Part 1: General Requirements	
Test Report No.:	L110113-05-A0
Client	
Name :	AAEON Technology Inc.
Address :	5TH FL 135 LANE 235 PAO CHIAO RD HSIN-TIEN, TAIPEI TAIWAN
Test Item :	Rugged Tablet Computer
Identification :	RTC-1000xx (xx is 0-9 or A-Z)
Testing laboratory	
Name :	Prodigy Technology Consultant Co., Ltd.
Address :	No.181, Sec. 2, Wunhua 1st Rd., Linkou District, New Taipei City 244, CHINESE TAIPEI
Test specification	
Standard :	EN 60950-1:2006+A11:2009+A1:2010 and IEC 60950-1:2005+A1:2009 excluding national deviation
Test Result :	The test item passed.
Prepared By :	
	 _____ Senior Signature
	<u>June 15, 2011</u> Date
	<u>Yama Cheng</u> Supervisor
Approved By:	
	 _____ Signature
	<u>June 15, 2011</u> Date
	<u>Angus Hsu</u> General Manager
Other Aspects:	
The completed test report includes the following documents:	
■ EN 60950-1 report (101 pages)	
	 
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TEST REPORT	
IEC 60950-1	
Information Technology Equipment – Safety – Part 1: General Requirements	
Report Reference No.	L110113-05-A0
Tested by (+ signature)	See cover sheet
Approved by (+ signature).....	See cover sheet
Date of issue.....	2011-06-15
Testing laboratory	
Name	Prodigy Technology Consultant Co., Ltd.
Address	No.181, Sec. 2, Wunhua 1st Rd., Linkou District, New Taipei City 244, CHINESE TAIPEI
Testing location	Prodigy Technology Consultant Co., Ltd.
Address	No.181, Sec. 2, Wunhua 1st Rd., Linkou District, New Taipei City 244, CHINESE TAIPEI
Applicant	
Name	AAEON Technology Inc.
Address	5TH FL 135 LANE 235 PAO CHIAO RD HSIN-TIEN, TAIPEI TAIWAN
Test specification	
Standard	EN 60950-1:2006+A11:2009+A1:2010
Test procedure	CE Marking serial in LVD
Procedure deviation	N/A
Non-standard test method.....	N/A
Test Report Form/blank test report	
Test Report Form No.	IEC60950_1B
TRF originator.....	SGS Fimko Ltd
Master TRF	Dated 2010-04
Test equipment	
Description.....	Rugged Tablet Computer
Trademark	None
Manufacturer	AAEON Technology Inc.
Model and/or type reference	RTC-1000xx (xx is 0-9 or A-Z)
Rating(s).....	Optional, 19Vdc, 3.2A



Summary of Testing:

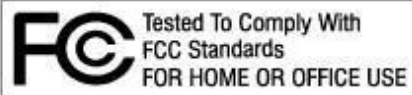
Unless otherwise indicated, all tests were conducted at Prodigy Technology Consultant Co., Ltd.
No.181, Sec. 2, Wunhua 1st Rd., Linkou District, New Taipei City 244, CHINESE TAIPEI

Tests performed (name of test and test clause)	Testing location / Comments
1.6.2 - INPUT TEST: SINGLE-PHASE	
2.5 - LIMITED POWER SOURCE MEASUREMENTS	
2.9.1,2.9.2,5.2.2 – HUMIDITY TEST	
2.10.2, PART 22 6.1 – DETERMINATION OF WORKING VOLTAGE-HAZARDOUS VOLTAGE (CIRCUIT) MEASUREMENT TEST	
4.2.1 – 4.2.4- STEADY FORCE TESTS	
4.2.6,4.2.1 – DROP TEST	
4.3.8 – LITHIUM BATTERY REVERSE CURRENT MEASUREMENT TEST	
4.3.8 – BATTERY PACK	
4.5.1, 1.4.12, 1.4.13 - HEATING TEST	
5.1.8.1 – LIMITATION OF THE TOUCH CURRENT TO A TELECOMMUNICATIONS NETWORK AND A CABLE DISTRIBUTION SYSTEM (SINGLE-PHASE)	
5.1.8.3 - LIMITATION OF TOUCH CURRENT DUE TO RINGING SIGNALS	(for reference)
5.3.1 - 5.3.9 - ABNORMAL OPERATION TESTS	
5.3.7 - OVERLOAD OF OPERATOR ACCESSIBLE CONNECTOR TEST	(for reference)
6.2.2 (6.2.2.1) – ELECTRIC STRENGTH TEST PROCEDURE - IMPULSE TEST	
6.2.2 (6.2.2.2) – ELECTRIC STRENGTH TEST PROCEDURE - STEADY-STATE TEST	



Copy of marking plate and summary of test results (information/comments)

Model No. : RTC-1000AS
DC: 19V \approx 3.2A



FCC ID :

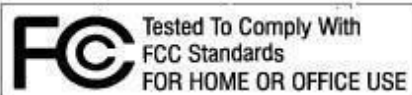
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

AAEON Technology Inc.

MADE IN TAIWAN

Model No. : RTC-1000D1
DC: 19V \approx 3.2A



FCC ID :

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

AAEON Technology Inc.

MADE IN TAIWAN

These are reference Labels. Final label shall be including the content of it.



Particulars: test item vs. test requirements

Equipment mobility : Transportable
Operating condition : Continuous
Mains supply tolerance (%) No direct connection
Tested for IT power systems : No
IT testing, phase-phase voltage (V) : N/A
Class of equipment..... : Class III
Mass of equipment (kg)..... : For model RTC-1000AS: 1.9kg;
For model RTC-1000D1: 2.3kg;
For Docking Station: 2.7kg
Protection against ingress of water : IPX0

Test case verdicts

Test case does not apply to the test object..... : N/A
Test item does meet the requirement : Pass
Test item does not meet the requirement : Fail

Testing

Date of receipt of test item.: 2011-01-12
Date(s) of performance of test.....: 2011-02-21 to 2011-06-02



General remarks

This test report shall not be reproduced except in full without the written approval of the testing laboratory. The test results presented in this report relate only to the item tested.
"(see remark #)" refers to a remark appended to the report.
"(see appended table)" refers to a table appended to the report.
Throughout this report a point is used as the decimal separator.

Models difference

Model RTC-1000AS is similar to RTC-1000D1, expect for Rechargeable Lithium Battery type mother board and overall enclosure dimension .

Brief description of the test equipment

- 1) The equipment is a Class III Rugged Tablet Computer. Electronic components were mounted on PWB, CPU, HDD and housed with a plastic enclosure and Megnesium alloy enclosure, powered by battery pack or power adaptor.
- 2) The maximum ambient temperature specified by manufacturer is for Model RTC-1000AS: 35 degree C;, and for Model RTC-1000D1: 40 degree C.
- 3) EUT Dimension: See Appendix Tabel for detail.
- 4) Construction description:
Mother board A with built-in battery pack (J.S Power Co., Ltd / DR202) for Model RTC-1000D1,
Mother board B with built-in battery pack (Formosan United Corporation / H705084) for Model RTC-1000AS.

Test condition

Temperature: 25°C
Relative humidity: 60%
Air pressure: 950 mbar

The test samples are pre-production without serial numbers.



IEC 60950-1			
Clause	Requirement - Test	Result - Remark	Verdict

1	GENERAL		Pass
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1.5	Components		Pass
1.5.1	General	See below.	Pass
	Comply with IEC 60950 or relevant component standard	(see appended table 1.5.1)	Pass
1.5.2	Evaluation and testing of components	<p>Components certified to IEC harmonized standard and checked for correct application.</p> <p>Components not certified are used in accordance with their ratings and they comply with applicable parts of IEC 60950-1 and the relevant component Standard.</p> <p>Components, for which no relevant IEC-Standard exist, have been tested under the conditions occurring in the equipment, using applicable parts of IEC 60950-1.</p>	Pass
1.5.3	Thermal controls		N/A
1.5.4	Transformers	Evaluated as part of Power Supply.	N/A
1.5.5	Interconnecting cables	Interconnecting cables comply with the relevant requirements of this standard.	Pass
1.5.6	Capacitors bridging insulation		N/A
1.5.7	Resistors bridging insulation	Evaluated as part of power adapter.	N/A
1.5.7.1	Resistors bridging functional, basic or supplementary insulation		N/A
1.5.7.2	Resistors bridging double or reinforced insulation between a.c. mains and other circuits		N/A
1.5.7.3	Resistors bridging double or reinforced insulation between a.c. mains and antenna or coaxial cable		N/A
1.5.8	Components in equipment for IT power systems		N/A
1.5.9	Surge suppressors		N/A



IEC 60950-1			
Clause	Requirement - Test	Result - Remark	Verdict

1.5.9.1	General		N/A
1.5.9.2	Protection of VDRs		N/A
1.5.9.3	Bridging of functional insulation by a VDR		N/A
1.5.9.4	Bridging of basic insulation by a VDR		N/A
1.5.9.5	Bridging of supplementary, double or reinforced insulation by a VDR		N/A

1.6	Power interface		Pass
1.6.1	AC power distribution systems	The unit is supplied by SELV.	N/A
1.6.2	Input current	The steady state input current of the equipment did not exceed the RATED CURRENT by more than 10% under NORMAL LOAD.	Pass
1.6.3	Voltage limit of hand-held equipment	This is not a hand-held equipment.	N/A
1.6.4	Neutral conductor		N/A

1.7	Marking and instructions		Pass
1.7.1	Power rating	Rating marking readily visible to operator.(Optional)	Pass
	Rated voltage(s) or voltage range(s) (V)	12Vdc	Pass
	Symbol for nature of supply, for d.c. only	⎓ (60417-2-IEC-5031)	Pass
	Rated frequency or frequency range (Hz)	DC source	N/A
	Rated current (mA or A)	3.2A	Pass
	Manufacturer's name or trade-mark or identification mark	AAEON Technology Inc.	Pass
	Model identification or type reference	RTC-1000xx (xx is 0-9 or A-Z)	Pass
	Symbol for Class II equipment only	Class III equipment.	N/A
	Other markings and symbols	Additional symbol may be provided when submitted for national approval.	N/A
1.7.2	Safety instructions and marking	Safety instructions in English. Other languages will be provided when submitted for national approval.	Pass
1.7.2.1	General		Pass



IEC 60950-1			
Clause	Requirement - Test	Result - Remark	Verdict
1.7.2.2	Disconnect devices		N/A
1.7.2.3	Overcurrent protective device		N/A
1.7.2.4	IT power distribution systems	TN system	N/A
1.7.2.5	Operator access with a tool		N/A
1.7.2.6	Ozone	This product does not produce ozone.	N/A
1.7.3	Short duty cycles	Equipment is designed for continuous operation.	N/A
1.7.4	Supply voltage adjustment	No adjustment can be made.	N/A
	Methods and means of adjustment; reference to installation instructions		N/A
1.7.5	Power outlets on the equipment	No power outlet	N/A
1.7.6	Fuse identification (marking, special fusing characteristics, cross-reference)		N/A
1.7.7	Wiring terminals		N/A
1.7.7.1	Protective earthing and bonding terminals		N/A
1.7.7.2	Terminal for a.c. mains supply conductors	Not permanently connected equipment.	N/A
1.7.7.3	Terminals for d.c. mains supply conductors	Not permanently connected equipment.	N/A
1.7.8	Controls and indicators	See below.	Pass
1.7.8.1	Identification, location and marking		N/A
1.7.8.2	Colours	Only functional indicators used	Pass
1.7.8.3	Symbols according to IEC 60417	Symbol No. 5009 according to IEC 60417-1 is placed near the stand-by knob.	Pass
1.7.8.4	Markings using figures	Figures are not used for indicating different positions of controls.	N/A
1.7.9	Isolation of multiple power sources		N/A
1.7.10	Thermostats and other regulating devices		N/A
1.7.11	Durability	All markings provided on UL Recognized Component labels suitable for surface they are applied upon and meet the durability test.	Pass
1.7.12	Removable parts	No marking is located on a removable parts.	Pass



IEC 60950-1			
Clause	Requirement - Test	Result - Remark	Verdict

1.7.13	Replaceable batteries	Caution statement is marked close to the battery or in both the users and service manual (in service manual)	Pass
	Language(s)	Reviewed only English markings/instructions. May be provided in other languages upon request from the manufacturer.	—
1.7.14	Equipment for restricted access locations		N/A

2	PROTECTION FROM HAZARDS		Pass
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2.1	Protection from electric shock and energy hazards		Pass
2.1.1	Protection in operator access areas		Pass
2.1.1.1	Access to energized parts	See below	Pass
	Test by inspection	All accessible circuits are SELV circuits	Pass
	Test with test finger (Figure 2A)	The test finger was unable to contact bare hazardous parts, basic insulation or ELV circuits	Pass
	Test with test pin (Figure 2B)	The test pin was unable to contact bare hazardous parts	Pass
	Test with test probe (Figure 2C)	Test probe can not touch the expose live part of TNV connector.	Pass
2.1.1.2	Battery compartments		N/A
2.1.1.3	Access to ELV wiring		N/A
	Working voltage (V_{peak} or V_{rms}); minimum distance through insulation (mm)		—
2.1.1.4	Access to hazardous voltage circuit wiring		N/A
2.1.1.5	Energy hazards	No energy hazards	Pass
2.1.1.6	Manual controls		N/A
2.1.1.7	Discharge of capacitors in equipment	Class III equipment	N/A
	Measured voltage (V); time-constant (s)		—
2.1.1.8	Energy hazards – d.c. mains supply		N/A
	a) Capacitor connected to the d.c. mains supply .		N/A
	b) Internal battery connected to the d.c. mains supply		N/A



IEC 60950-1			
Clause	Requirement - Test	Result - Remark	Verdict

2.1.1.9	Audio amplifiers		N/A
2.1.2	Protection in service access areas		N/A
2.1.3	Protection in restricted access locations		N/A

2.2	SELV circuits		Pass
2.2.1	General requirements	The unit intended to be supplied by SELV.	Pass
2.2.2	Voltages under normal conditions (V)	All accessible voltage are less than 42.4Vp or 60Vdc and are classified as SELV.	Pass
2.2.3	Voltages under fault conditions (V).....		N/A
2.2.4	Connection of SELV circuits to other circuits.....	SELV circuits are only connected to other SELV circuit.	Pass

2.3	TNV circuits		Pass
2.3.1	Limits	Complies by inspection based on review of circuit voltages.	Pass
	Type of TNV circuits	TNV-3 Circuit.	—
2.3.2	Separation from other circuits and from accessible parts	The TNV circuits are separated from unearthed operator accessible conductive parts by basic insulation.	Pass
2.3.2.1	General requirements	Basic insulation	Pass
2.3.2.2	Protection by basic insulation		Pass
2.3.2.3	Protection by earthing		N/A
2.3.2.4	Protection by other constructions		N/A
2.3.3	Separation from hazardous voltages		N/A
	Insulation employed		—
2.3.4	Connection of TNV circuits to other circuits	TNV circuit only connected to SELV circuit.	Pass
	Insulation employed	Basic insulation	—
2.3.5	Test for operating voltages generated externally		N/A

2.4	Limited current circuits		N/A
2.4.1	General requirements	LED backlight	N/A



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Clause	Requirement - Test	Result - Remark	Verdict

2.4.2	Limit values		N/A
	Frequency (Hz)		—
	Measured current (mA).....		—
	Measured voltage (V)		—
	Measured capacitance (nF or μ F)		—
2.4.3	Connection of limited current circuits to other circuits		N/A

2.5	Limited power sources		Pass
	a) Inherently limited output	RS232 port, RJ11 port, RJ45 port, Audio port, PCMCIA card socket, and SIM, CF card socket	Pass
	b) Impedance limited output	VGA port	Pass
	c) Regulating network limited output under normal operating and single fault condition	For USB, mini USB Protective IC used. See appended table 1.5.1 for detail.	Pass
	d) Overcurrent protective device limited output		N/A
	Max. output voltage (V), max. output current (A), max. apparent power (VA).....	See appended table 2.5 for details.	—
	Current rating of overcurrent protective device (A)		—

2.6	Provisions for earthing and bonding		N/A
2.6.1	Protective earthing	Class III equipment.	N/A
2.6.2	Functional earthing		N/A
2.6.3	Protective earthing and protective bonding conductors		N/A
2.6.3.1	General		N/A
2.6.3.2	Size of protective earthing conductors		N/A
	Rated current (A), cross-sectional area (mm^2), AWG		—
2.6.3.3	Size of protective bonding conductors		N/A
	Rated current (A), cross-sectional area (mm^2), AWG		—
	Protective current rating (A), cross-sectional area (mm^2), AWG		—



IEC 60950-1			
Clause	Requirement - Test	Result - Remark	Verdict
2.6.3.4	Resistance of earthing conductors and their terminations; resistance (Ω), voltage drop (V), test current (A), duration (min)		N/A
2.6.3.5	Colour of insulation		N/A
2.6.4	Terminals		N/A
2.6.4.1	General		N/A
2.6.4.2	Protective earthing and bonding terminals		N/A
	Rated current (A), type and nominal thread diameter (mm).....		—
2.6.4.3	Separation of the protective earthing conductor from protective bonding conductors		N/A
2.6.5	Integrity of protective earthing		—
2.6.5.1	Interconnection of equipment		N/A
2.6.5.2	Components in protective earthing conductors and protective bonding conductors		N/A
2.6.5.3	Disconnection of protective earth		N/A
2.6.5.4	Parts that can be removed by an operator		N/A
2.6.5.5	Parts removed during servicing		N/A
2.6.5.6	Corrosion resistance		N/A
2.6.5.7	Screws for protective bonding	No such component used.	N/A
2.6.5.8	Reliance on telecommunication network or cable distribution system		N/A

2.7	Overcurrent and earth fault protection in primary circuits		N/A
2.7.1	Basic requirements	Class III equipment.	N/A
	Instructions when protection relies on building installation		N/A
2.7.2	Faults not simulated in 5.3.7		N/A
2.7.3	Short-circuit backup protection		N/A
2.7.4	Number and location of protective devices		N/A
2.7.5	Protection by several devices		N/A
2.7.6	Warning to service personnel		N/A

2.8	Safety interlocks		N/A
2.8.1	General principles	No safety interlocks provided.	N/A



IEC 60950-1			
Clause	Requirement - Test	Result - Remark	Verdict

2.8.2	Protection requirements		N/A
2.8.3	Inadvertent reactivation		N/A
2.8.4	Fail-safe operation		N/A
2.8.5	Moving parts		N/A
2.8.6	Overriding		N/A
2.8.7	Switches and relays		N/A
2.8.7.1	Contact gaps (mm)		N/A
2.8.7.2	Overload test		N/A
2.8.7.3	Endurance test		N/A
2.8.7.4	Electric strength test (V)		N/A
2.8.8	Mechanical actuators		N/A

2.9	Electrical insulation		Pass
2.9.1	Properties of insulating materials	Natural rubber, materials containing asbestos and hygroscopic materials are not used as insulation.	Pass
2.9.2	Humidity conditioning	Electric strength test was conducted after the humidity treatment.	Pass
	Relative humidity (%), temperature (°C)	Relative humidity: 95%, temperature: 25°C, test duration: 48 hours	—
2.9.3	Grade of insulation	Basic insulation between TNV and SELV circuits. All other critical clearance and creepage were evaluated under separate power adapter certification.	Pass
2.9.4	Separation from hazardous voltages		N/A
	Method(s) used		—

2.10	Clearances, creepage distances and distances through insulation		Pass
2.10.1	General	Pollution Degree 2 applicable.	Pass
2.10.1.1	Frequency		N/A
2.10.1.2	Pollution degrees	Pollution degree 2 applicable.	Pass
2.10.1.3	Reduced values for functional insulation	See 5.3.4	Pass



IEC 60950-1			
Clause	Requirement - Test	Result - Remark	Verdict
2.10.1.4	Intervening unconnected conductive parts		N/A
2.10.1.5	Insulation with varying dimensions		N/A
2.10.1.6	Special separation requirements		N/A
2.10.1.7	Insulation in circuits generating starting pulses		N/A
2.10.2	Determination of working voltage	See appendix additional table for details	Pass
2.10.2.1	General		Pass
2.10.2.2	RMS working voltage		Pass
2.10.2.3	Peak working voltage		N/A
2.10.3	Clearances	See below.	Pass
2.10.3.1	General	Considered.	Pass
2.10.3.2	Mains transient voltages	Overvoltage Category I	N/A
	a) AC mains supply		N/A
	b) Earthed d.c. mains supplies		N/A
	c) Unearthed d.c. mains supplies		N/A
	d) Battery operation		N/A
2.10.3.3	Clearances in primary circuits		N/A
2.10.3.4	Clearances in secondary circuits	Basic insulation between TNV (approved Modem Card) and SELV circuit. Functional insulation for other SELV circuits.	Pass
2.10.3.5	Clearances in circuits having starting pulses		N/A
2.10.3.6	Transients from a.c. mains supply		N/A
2.10.3.7	Transients from d.c. mains supply		N/A
2.10.3.8	Transients from telecommunication networks and cable distribution systems	TELECOMMUNICATION NETWORK TRANSIENT VOLTAGE of TNV-3 is considered as 1500 V _{peak} .	Pass
2.10.3.9	Measurement of transient voltage levels		N/A
	a) Transients from a mains supply		N/A
	For an a.c. mains supply		N/A
	For a d.c. mains supply		N/A
	b) Transients from a telecommunication network .		N/A
2.10.4	Creepage distances	See appended table 2.10.3 and 2.10.4 for details	Pass
2.10.4.1	General	See below.	Pass



IEC 60950-1			
Clause	Requirement - Test	Result - Remark	Verdict
2.10.4.2	Material group and comparative tracking index		N/A
	CTI tests	Material group IIIb, $100 \leq CTI < 175$	—
2.10.4.3	Minimum creepage distances		N/A
2.10.5	Solid insulation		Pass
2.10.5.1	General		Pass
2.10.5.2	Distances through insulation	With approved Modem Card (See appended table 1.5.1)	Pass
2.10.5.3	Insulating compound as solid insulation		N/A
2.10.5.4	Semiconductor devices		N/A
2.10.5.5.	Cemented joints		N/A
2.10.5.6	Thin sheet material – General		N/A
2.10.5.7	Separable thin sheet material		N/A
	Number of layers (pcs)		—
2.10.5.8	Non-separable thin sheet material		N/A
2.10.5.9	Thin sheet material – standard test procedure		N/A
	Electric strength test		—
2.10.5.10	Thin sheet material – alternative test procedure		N/A
	Electric strength test		—
2.10.5.11	Insulation in wound components		N/A
2.10.5.12	Wire in wound components		N/A
	Working voltage		N/A
	a) Basic insulation not under stress		N/A
	b) Basic, supplementary, reinforced insulation		N/A
	c) Compliance with Annex U		N/A
	Two wires in contact inside wound component; angle between 45° and 90°		N/A
2.10.5.13	Wire with solvent-based enamel in wound components		N/A
	Electric strength test		—
	Routine test		N/A
2.10.5.14	Additional insulation in wound components		N/A
	Working voltage		N/A
	- Basic insulation not under stress		N/A



IEC 60950-1			
Clause	Requirement - Test	Result - Remark	Verdict

	- Supplementary, reinforced insulation		N/A
2.10.6	Construction of printed boards	No special coating used.	N/A
2.10.6.1	Uncoated printed boards		N/A
2.10.6.2	Coated printed boards		N/A
2.10.6.3	Insulation between conductors on the same inner surface of a printed board		N/A
2.10.6.4	Insulation between conductors on different layers of a printed board		N/A
	Distance through insulation		N/A
	Number of insulation layers (pcs)		N/A
2.10.7	Component external terminations		N/A
2.10.8	Tests on coated printed boards and coated components		N/A
2.10.8.1	Sample preparation and preliminary inspection		N/A
2.10.8.2	Thermal conditioning		N/A
2.10.8.3	Electric strength test		N/A
2.10.8.4	Abrasion resistance test		N/A
2.10.9	Thermal cycling		N/A
2.10.10	Test for Pollution Degree 1 environment and insulating compound		N/A
2.10.11	Tests for semiconductor devices and cemented joints		N/A
2.10.12	Enclosed and sealed parts		N/A

3	WIRING, CONNECTIONS AND SUPPLY		Pass
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3.1	General		Pass
3.1.1	Current rating and overcurrent protection	All wires/conductors possess adequate cross-sectional areas for their intended application and internal wiring and adequately insulated	Pass
3.1.2	Protection against mechanical damage	The wires are well routed away from sharp edges , etc. and are adequately fixed to prevent excessive strain on wire and terminals	Pass



IEC 60950-1			
Clause	Requirement - Test	Result - Remark	Verdict
3.1.3	Securing of internal wiring	The wires are positioned in such a manner that prevents excessive strain, loosening of terminal connections and damage of conductor.	Pass
3.1.4	Insulation of conductors		Pass
3.1.5	Beads and ceramic insulators		N/A
3.1.6	Screws for electrical contact pressure		N/A
3.1.7	Insulating materials in electrical connections	No contact pressure through insulating material.	Pass
3.1.8	Self-tapping and spaced thread screws		N/A
3.1.9	Termination of conductors	All conductors are reliably secured.	Pass
	10 N pull test		Pass
3.1.10	Sleeving on wiring		N/A

3.2	Connection to a mains supply		N/A
3.2.1	Means of connection		N/A
3.2.1.1	Connection to an a.c. mains supply		N/A
3.2.1.2	Connection to a d.c. mains supply		N/A
3.2.2	Multiple supply connections		N/A
3.2.3	Permanently connected equipment		N/A
	Number of conductors, diameter of cable and conduits (mm)		—
3.2.4	Appliance inlets		N/A
3.2.5	Power supply cords		N/A
3.2.5.1	AC Power supply cords		N/A
	Type		—
	Rated current (A), cross-sectional area (mm ²), AWG		—
3.2.5.2	DC power supply cords		N/A
3.2.6	Cord anchorages and strain relief		N/A
	Mass of equipment (kg), pull (N)		—
	Longitudinal displacement (mm)		—
3.2.7	Protection against mechanical damage		N/A
3.2.8	Cord guards		N/A



IEC 60950-1			
Clause	Requirement - Test	Result - Remark	Verdict

	D (mm); test mass (g)		—
	Radius of curvature of cord (mm)		—
3.2.9	Supply wiring space		N/A

3.3	Wiring terminals for connection of external conductors		N/A
3.3.1	Wiring terminals		N/A
3.3.2	Connection of non-detachable power supply cords		N/A
3.3.3	Screw terminals		N/A
3.3.4	Conductor sizes to be connected		N/A
	Rated current (A), cord/cable type, cross-sectional area (mm ²)		—
3.3.5	Wiring terminals sizes		N/A
	Rated current (A), type, nominal thread diameter (mm)		—
3.3.6	Wiring terminals design		N/A
3.3.7	Grouping of wiring terminals		N/A
3.3.8	Standard wire		N/A

3.4	Disconnection from the mains supply		N/A
3.4.1	General requirement		N/A
3.4.2	Disconnect devices		N/A
3.4.3	Permanently connected equipment	Not permanently connected equipment.	N/A
3.4.4	Parts which remain energised		N/A
3.4.5	Switches in flexible cords		N/A
3.4.6	Number of poles - single-phase and d.c. equipment		N/A
3.4.7	Number of poles - three-phase equipment		N/A
3.4.8	Switches as disconnect devices		N/A
3.4.9	Plugs as disconnect devices		N/A
3.4.10	Interconnected equipment		N/A
3.4.11	Multiple power sources		N/A



IEC 60950-1			
Clause	Requirement - Test	Result - Remark	Verdict

3.5	Interconnection of equipment		Pass
3.5.1	General requirements		Pass
3.5.2	Types of interconnection circuits	Interconnection circuits are SELV or TNV-3 circuit	Pass
3.5.3	ELV circuits as interconnection circuits	No ELV interconnection circuits.	N/A
3.5.4	Data ports for additional equipment		Pass

4	PHYSICAL REQUIREMENTS		Pass
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4.1	Stability		N/A
	Angle of 10°	<7kg	N/A
	Test: force (N)		N/A

4.2	Mechanical strength		Pass
4.2.1	General	See below	Pass
4.2.2	Steady force test, 10 N		Pass
4.2.3	Steady force test, 30 N		N/A
4.2.4	Steady force test, 250 N	No hazards as a result of the 250 N test.	Pass
4.2.5	Impact test		Pass
	Fall test		Pass
	Swing test		N/A
4.2.6	Drop test; height (mm)	No hazards as a result of the drop test	Pass
4.2.7	Stress relief		N/A
4.2.8	Cathode ray tubes		N/A
	Picture tube separately certified		N/A
4.2.9	High pressure lamps		N/A
4.2.10	Wall or ceiling mounted equipment; force (N) ...:		N/A

4.3	Design and construction		Pass
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IEC 60950-1			
Clause	Requirement - Test	Result - Remark	Verdict
4.3.1	Edges and corners	All edges and corners are judged to be sufficiently well rounded so as not to constitute a hazard.	Pass
4.3.2	Handles and manual controls; force (N).....:		N/A
4.3.3	Adjustable controls		N/A
4.3.4	Securing of parts		N/A
4.3.5	Connection by plugs and sockets		N/A
4.3.6	Direct plug-in equipment		N/A
	Torque		—
	Compliance with the relevant mains plug standard		N/A
4.3.7	Heating elements in earthed equipment		N/A
4.3.8	Batteries	Battery is protected against charging current by multiple components within the system clock integrated circuit package. See Critical Components List.	Pass
	- Overcharging of a rechargeable battery	See appended table 4.3.8 for details.	Pass
	- Unintentional charging of a non-rechargeable battery		N/A
	- Reverse charging of a rechargeable battery		N/A
	- Excessive discharging rate for any battery	See appended table 4.3.8 for details.	Pass
4.3.9	Oil and grease		N/A
4.3.10	Dust, powders, liquids and gases		N/A
4.3.11	Containers for liquids or gases		N/A
4.3.12	Flammable liquids		N/A
	Quantity of liquid (l).....:		N/A
	Flash point (°C).....:		N/A
4.3.13	Radiation		Pass
4.3.13.1	General	See below	Pass
4.3.13.2	Ionizing radiation		N/A
	Measured radiation (pA/kg)		—
	Measured high-voltage (kV)		—
	Measured focus voltage (kV)		—



IEC 60950-1			
Clause	Requirement - Test	Result - Remark	Verdict

	CRT markings		—
4.3.13.3	Effect of ultraviolet (UV) radiation on materials		N/A
	Part, property, retention after test, flammability classification		N/A
4.3.13.4	Human exposure to ultraviolet (UV) radiation		N/A
4.3.13.5	Laser (including LEDs)	This product contains only visible indicator LEDs (Class 1).	Pass
	Laser class	For indicator LEDs, see above statement.)	—
4.3.13.6	Other types		N/A

4.4	Protection against hazardous moving parts		Pass
4.4.1	General		Pass
4.4.2	Protection in operator access areas	Hazardous moving parts of equipment are adequately enclosed and guarded.	Pass
4.4.3	Protection in restricted access locations		N/A
4.4.4	Protection in service access areas		N/A
4.4.5	Protection against moving fan blades		N/A
4.4.5.1	General		N/A
	Not considered to cause pain or injury. a).....:		N/A
	Is considered to cause pain, not injury. b)		N/A
	Considered to cause injury. c)		N/A
4.4.5.2	Protection for users		N/A
	Use of symbol or warning		N/A
4.4.5.3	Protection for service persons		N/A
	Use of symbol or warning		N/A

4.5	Thermal requirements		Pass
4.5.1	General	See appended table 4.5	Pass
4.5.2	Temperature tests	Temperature tests see appended table 4.5 for details.	Pass



IEC 60950-1			
Clause	Requirement - Test	Result - Remark	Verdict

	Normal load condition per Annex L	Operated in the most unfavorable way of operation given in the operating instructions until steady conditions established.	—
4.5.3	Temperature limits for materials	See appended table 4.5 for details.	Pass
4.5.4	Touch temperature limits	See appended table 4.5 for details.	Pass
4.5.5	Resistance to abnormal heat		N/A

4.6	Openings in enclosures		Pass
4.6.1	Top and side openings	For docking station: Foreign objects entering the enclosure will not contact bare parts at hazardous voltage or energy. (No hazardous parts within 5° projection). For Table Computer: transportable equipment	Pass
	Dimensions (mm)	See Appendix Tabel for detail.	—
4.6.2	Bottoms of fire enclosures	For docking station: No openings. For Table Computer: transportable equipment.	Pass
	Construction of the bottom, dimensions (mm)		—
4.6.3	Doors or covers in fire enclosures		N/A
4.6.4	Openings in transportable equipment	The openings outside of the fan or heatsink: The internal enclosure was served as the barrier provided between internal parts, and the outside enclosure was served as fan guard.	Pass
4.6.4.1	Constructional design measures		Pass
	Dimensions (mm)	See Appendix Tabel for detail.	—
4.6.4.2	Evaluation measures for larger openings		N/A
4.6.4.3	Use of metallized parts		N/A
4.6.5	Adhesives for constructional purposes		N/A
	Conditioning temperature (°C), time (weeks).....		—



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Clause	Requirement - Test	Result - Remark	Verdict

4.7	Resistance to fire		Pass
4.7.1	Reducing the risk of ignition and spread of flame	Method 1: Selection and application of components and materials which minimize the possibility of ignition and spread of flame.	Pass
	Method 1, selection and application of components wiring and materials		Pass
	Method 2, application of all of simulated fault condition tests		N/A
4.7.2	Conditions for a fire enclosure	A fire enclosure is required	Pass
4.7.2.1	Parts requiring a fire enclosure	Fire enclosure covers all parts	Pass
4.7.2.2	Parts not requiring a fire enclosure		N/A
4.7.3	Materials		Pass
4.7.3.1	General	See below.	Pass
4.7.3.2	Materials for fire enclosures	Alumimum-Magnesium alloy enclosure	Pass
4.7.3.3	Materials for components and other parts outside fire enclosures	Decoration parts rated HB min.	Pass
4.7.3.4	Materials for components and other parts inside fire enclosures	All internal materials are rated V-2 or better or are mounted on a PWB rated V-1 or better. Internal wiring is UL Recognized, rated VW-1 or FT-1. (See appended table 1.5.1)	Pass
4.7.3.5	Materials for air filter assemblies		N/A
4.7.3.6	Materials used in high-voltage components		N/A

5	ELECTRICAL REQUIREMENTS AND SIMULATED ABNORMAL CONDITIONS		Pass
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5.1	Touch current and protective conductor current		Pass
5.1.1	General		Pass
5.1.2	Configuration of equipment under test (EUT)		Pass
5.1.2.1	Single connection to an a.c. mains supply		N/A



IEC 60950-1			
Clause	Requirement - Test	Result - Remark	Verdict

5.1.2.2	Redundant multiple connections to an a.c. mains supply		N/A
5.1.2.3	Simultaneous multiple connections to an a.c. mains supply		N/A
5.1.3	Test circuit		N/A
5.1.4	Application of measuring instrument		N/A
5.1.5	Test procedure		N/A
5.1.6	Test measurements		N/A
	Supply voltage (V)		—
	Measured touch current (mA)		—
	Max. allowed touch current (mA)		—
	Measured protective conductor current (mA)		—
	Max. allowed protective conductor current (mA) :		—
5.1.7	Equipment with touch current exceeding 3,5 mA		N/A
5.1.7.1	General		N/A
5.1.7.2	Simultaneous multiple connections to the supply		N/A
5.1.8	Touch currents to and from telecommunication networks and cable distribution systems and from telecommunication networks		Pass
5.1.8.1	Limitation of the touch current to a telecommunication network or to a cable distribution system	See below	Pass
	Supply voltage (V)	264 Vac	—
	Measured touch current (mA)	See Appendix Tabel for detail.	—
	Max. allowed touch current (mA)	0.25mA	—
5.1.8.2	Summation of touch currents from telecommunication networks		N/A
	a) EUT with earthed telecommunication ports		N/A
	b) EUT whose telecommunication ports have no reference to protective earth		N/A

5.2	Electric strength		Pass
5.2.1	General		Pass
5.2.2	Test procedure	(See appended table 5.2)	Pass



IEC 60950-1			
Clause	Requirement - Test	Result - Remark	Verdict

5.3	Abnormal operating and fault conditions		Pass
5.3.1	Protection against overload and abnormal operation	See appended table 5.3 for details.	Pass
5.3.2	Motors	Certified fan used	N/A
5.3.3	Transformers	Evaluated as parts of power supply	N/A
5.3.4	Functional insulation	Method C	Pass
5.3.5	Electromechanical components		N/A
5.3.6	Audio amplifiers in ITE		N/A
5.3.7	Simulation of faults	See appended table 5.3 for details.	Pass
5.3.8	Unattended equipment		N/A
5.3.9	Compliance criteria for abnormal operating and fault conditions	No fire, emission of molten metal or deformation was noted during the tests.	Pass
5.3.9.1	During the tests	No fire, emission of molten metal or deformation was noted during the tests. The fire which occurred did not propagate beyond the equipment.	Pass
5.3.9.2	After the tests	Electric Strength tests performed after abnormal and fault tests.	Pass

6	CONNECTION TO TELECOMMUNICATION NETWORKS		Pass
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6.1	Protection of telecommunication network service personnel, and users of other equipment connected to the network, from hazards in the equipment		Pass
6.1.1	Protection from hazardous voltages		Pass
6.1.2	Separation of the telecommunication network from earth		Pass
6.1.2.1	Requirements		N/A
	Supply voltage (V)		—
	Current in the test circuit (mA)		—
6.1.2.2	Exclusions		N/A

6.2	Protection of equipment users from overvoltages on telecommunication networks		Pass
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IEC 60950-1			
Clause	Requirement - Test	Result - Remark	Verdict

6.2.1	Separation requirements	Adequate electrical separation between TNV-3 to b) metal enclosure c) user accessible connectors	Pass
6.2.2	Electric strength test procedure		Pass
6.2.2.1	Impulse test	(See appended table 5.2)	Pass
6.2.2.2	Steady-state test	(See appended table 5.2)	Pass
6.2.2.3	Compliance criteria	No breakdown of insulation.	Pass

6.3	Protection of telecommunication wiring system from overheating		N/A
	Max. output current (A)		—
	Current limiting method		—

7	CONNECTION TO CABLE DISTRIBUTION SYSTEMS		N/A
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7.1	General		N/A
7.2	Protection of cable distribution system service persons, and users of other equipment connected to the system, from hazardous voltages in the equipment		N/A
7.3	Protection of equipment users from overvoltages on the cable distribution system		N/A
7.4	Insulation between primary circuits and cable distribution systems		N/A
7.4.1	General		N/A
7.4.2	Voltage surge test		N/A
7.4.3	Impulse test		N/A



IEC 60950-1			
Clause	Requirement - Test	Result - Remark	Verdict

A	ANNEX A, TESTS FOR RESISTANCE TO HEAT AND FIRE		N/A
A.1	Flammability test for fire enclosures of movable equipment having a total mass exceeding 18 kg, and of stationary equipment (see 4.7.3.2)		N/A
A.1.1	Samples		N/A
	Wall thickness (mm).....:		—
A.1.2	Conditioning of samples; temperature (°C)		N/A
A.1.3	Mounting of samples.....:		N/A
A.1.4	Test flame (see IEC 60695-11-3)		N/A
	Flame A, B, C or D		—
A.1.5	Test procedure		N/A
A.1.6	Compliance criteria		N/A
	Sample 1 burning time (s).....:		—
	Sample 2 burning time (s).....:		—
	Sample 3 burning time (s).....:		—
A.2	Flammability test for fire enclosures of movable equipment having a total mass not exceeding 18 kg, and for material and components located inside fire enclosures (see 4.7.3.2 and 4.7.3.4)		N/A
A.2.1	Samples		N/A
	Wall thickness (mm).....:		—
A.2.2	Conditioning of samples; temperature (°C)		N/A
A.2.3	Mounting of samples.....:		N/A
A.2.4	Test flame (see IEC 60695-11-4)		N/A
	Flame A, B or C		—
A.2.5	Test procedure		N/A
A.2.6	Compliance criteria		N/A
	Sample 1 burning time (s).....:		—
	Sample 2 burning time (s).....:		—
	Sample 3 burning time (s).....:		—
A.2.7	Alternative test acc. to IEC 60695-11-5, cl. 5 and 9		N/A
	Sample 1 burning time (s).....:		—
	Sample 2 burning time (s).....:		—



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Clause	Requirement - Test	Result - Remark	Verdict

	Sample 3 burning time (s)..... :		—
A.3	Hot flaming oil test (see 4.6.2)		N/A
A.3.1	Mounting of samples		N/A
A.3.2	Test procedure		N/A
A.3.3	Compliance criterion		N/A

B	ANNEX B, MOTOR TESTS UNDER ABNORMAL CONDITIONS (see 4.7.2.2 and 5.3.2)		N/A
B.1	General requirements		N/A
	Position		—
	Manufacturer		—
	Type		—
	Rated values		—
B.2	Test conditions		N/A
B.3	Maximum temperatures		N/A
B.4	Running overload test		N/A
B.5	Locked-rotor overload test		N/A
	Test duration (days)		—
	Electric strength test: test voltage (V)		—
B.6	Running overload test for DC motors in secondary circuits		N/A
B.7	Locked-rotor overload test for DC motors in secondary circuits		N/A
B.7.1	General		N/A
B.7.2	Test procedure		N/A
B.7.3	Alternative test procedure		N/A
B.7.4	Electric strength test; test voltage (V)		N/A
B.8	Test for motors with capacitors		N/A
B.9	Test for three-phase motors		N/A
B.10	Test for series motors		N/A
	Operating voltage (V)		—



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Clause	Requirement - Test	Result - Remark	Verdict

C	ANNEX C, TRANSFORMERS (see 1.5.4 and 5.3.3)		N/A
	Position		—
	Manufacturer		—
	Type		—
	Rated values		
	Method of protection		—
C.1	Overload test		N/A
C.2	Insulation		N/A
	Protection from displacement of windings		—

D	ANNEX D, MEASURING INSTRUMENTS FOR TOUCH-CURRENT TESTS (see 5.1.4)		Pass
D.1	Measuring instrument	Simpson Meter 228 used.	Pass
D.2	Alternative measuring instrument		N/A

E	ANNEX E, TEMPERATURE RISE OF A WINDING (see 1.4.13)		N/A
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F	ANNEX F, MEASUREMENT OF CLEARANCES AND CREEPAGE DISTANCES (see 2.10 and Annex G)		Pass
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G	ANNEX G, ALTERNATIVE METHOD FOR DETERMINING MINIMUM CLEARANCES		N/A
G.1	Clearances		N/A
G.1.1	General		N/A
G.1.2	Summary of the procedure for determining minimum clearances		N/A
G.2	Determination of mains transient voltage (V)		N/A
G.2.1	AC mains supply		N/A
G.2.2	Earthed d.c. mains supplies		N/A
G.2.3	Unearthed d.c. mains supplies		N/A
G.2.4	Battery operation		N/A



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Clause	Requirement - Test	Result - Remark	Verdict

G.3	Determination of telecommunication network transient voltage (V)		N/A
G.4	Determination of required withstand voltage (V)		N/A
G.4.1	Mains transients and internal repetitive peaks ...:		N/A
G.4.2	Transients from telecommunication networks		N/A
G.4.3	Combination of transients		N/A
G.4.4	Transients from cable distribution systems		N/A
G.5	Measurement of transient voltages (V)		N/A
	a) Transients from a mains supply		N/A
	For an a.c. mains supply		N/A
	For a d.c. mains supply		N/A
	b) Transients from a telecommunication network		N/A
G.6	Determination of minimum clearances		N/A

H	ANNEX H, IONIZING RADIATION (see 4.3.13)		N/A
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J	ANNEX J, TABLE OF ELECTROCHEMICAL POTENTIALS (see 2.6.5.6)		N/A
	Metal(s) used		—

K	ANNEX K, THERMAL CONTROLS (see 1.5.3 and 5.3.8)		N/A
K.1	Making and breaking capacity	No thermal control.	N/A
K.2	Thermostat reliability; operating voltage (V)		N/A
K.3	Thermostat endurance test; operating voltage(V):		N/A
K.4	Temperature limiter endurance; operating voltage (V)		N/A
K.5	Thermal cut-out reliability		N/A
K.6	Stability of operation		N/A

L	ANNEX L, NORMAL LOAD CONDITIONS FOR SOME TYPES OF ELECTRICAL BUSINESS EQUIPMENT (see 1.2.2.1 and 4.5.2)		Pass
L.1	Typewriters		N/A
L.2	Adding machines and cash registers		N/A



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Clause	Requirement - Test	Result - Remark	Verdict

L.3	Erasers		N/A
L.4	Pencil sharpeners		N/A
L.5	Duplicators and copy machines		N/A
L.6	Motor-operated files		N/A
L.7	Other business equipment		Pass

M	ANNEX M, CRITERIA FOR TELEPHONE RINGING SIGNALS (see 2.3.1)		N/A
M.1	Introduction		N/A
M.2	Method A		N/A
M.3	Method B		N/A
M.3.1	Ringling signal		N/A
M.3.1.1	Frequency (Hz)		N/A
M.3.1.2	Voltage (V)		N/A
M.3.1.3	Cadence; time (s), voltage (V)		N/A
M.3.1.4	Single fault current (mA)		N/A
M.3.2	Tripping device and monitoring voltage.....		N/A
M.3.2.1	Conditions for use of a tripping device or a monitoring voltage		N/A
M.3.2.2	Tripping device		N/A
M.3.2.3	Monitoring voltage (V).....		N/A

N	ANNEX N, IMPULSE TEST GENERATORS (see 1.5.7.2, 1.5.7.3, 2.10.3.9, 6.2.2.1, 7.3.2, 7.4.3 and Clause G.5)		Pass
N.1	ITU-T impulse test generators		Pass
N.2	IEC 60065 impulse test generator		N/A

P	ANNEX P, NORMATIVE REFERENCES		Pass
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Q	ANNEX Q, Voltage dependent resistors (VDRs) (see 1.5.9.1)		N/A
	a) Preferred climatic categories		N/A
	b) Maximum continuous voltage		N/A
	c) Pulse current		N/A



IEC 60950-1			
Clause	Requirement - Test	Result - Remark	Verdict

R	ANNEX R, EXAMPLES OF REQUIREMENTS FOR QUALITY CONTROL PROGRAMMES		N/A
R.1	Minimum separation distances for unpopulated coated printed boards (see 2.10.6.2)		N/A
R.2	Reduced clearances (see 2.10.3)		N/A

S	ANNEX S, PROCEDURE FOR IMPULSE TESTING (see 6.2.2.3)		Pass
S.1	Test equipment		Pass
S.2	Test procedure		Pass
S.3	Examples of waveforms during impulse testing		Pass

T	ANNEX T, GUIDANCE ON PROTECTION AGAINST INGRESS OF WATER (see 1.1.2)		N/A
			—

U	ANNEX U, INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION (see 2.10.5.4)		N/A
	Separate test report		N/A

V	ANNEX V, AC POWER DISTRIBUTION SYSTEMS (see 1.6.1)		N/A
V.1	Introduction		N/A
V.2	TN power systems		N/A

W	ANNEX W, SUMMATION OF TOUCH CURRENTS		N/A
W.1	Touch current from electronic circuits		N/A
W.1.1	Floating circuits		N/A
W.1.2	Earthed circuits		N/A
W.2	Interconnection of several equipments		N/A
W.2.1	Isolation		N/A
W.2.2	Common return, isolated from earth		N/A
W.2.3	Common return, connected to protective earth		N/A



IEC 60950-1			
Clause	Requirement - Test	Result - Remark	Verdict

X	ANNEX X, MAXIMUM HEATING EFFECT IN TRANSFORMER TESTS (see clause C.1)		N/A
X.1	Determination of maximum input current		N/A
X.2	Overload test procedure		N/A

Y	ANNEX Y, ULTRAVIOLET LIGHT CONDITIONING TEST (see 4.3.13.3)		N/A
Y.1	Test apparatus		N/A
Y.2	Mounting of test samples		N/A
Y.3	Carbon-arc light-exposure apparatus		N/A
Y.4	Xenon-arc light exposure apparatus		N/A

Z	ANNEX Z, OVERVOLTAGE CATEGORIES (see 2.10.3.2 and Clause G.2)		Pass
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AA	ANNEX AA, MANDREL TEST (see 2.10.5.8)		N/A
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BB	ANNEX BB, CHANGES IN THE SECOND EDITION		-
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CC	ANNEX CC, Evaluation of integrated circuit (IC) current limiters		N/A
CC.1	General		N/A
CC.2	Test program 1.....		N/A
CC.3	Test program 2.....		N/A

DD	ANNEX DD, Requirements for the mounting means of rack-mounted equipment		N/A
DD.1	General		N/A
DD.2	Mechanical strength test, variable N.....		N/A
DD.3	Mechanical strength test, 250N, including end stops.....		N/A
DD.4	Compliance.....		N/A



IEC 60950-1			
Clause	Requirement - Test	Result - Remark	Verdict

EE	ANNEX EE, Household and home/office document/media shredders		N/A
EE.1	General		N/A
EE.2	Markings and instructions		N/A
	Use of markings or symbols.....:		N/A
	Information of user instructions, maintenance and/or servicing instructions.....:		N/A
EE.3	Inadvertent reactivation test.....:		N/A
EE.4	Disconnection of power to hazardous moving parts:		N/A
	Use of markings or symbols.....:		N/A
EE.5	Protection against hazardous moving parts		N/A
	Test with test finger (Figure 2A)		N/A
	Test with wedge probe (Figure EE1 and EE2):		N/A



IEC 60950-1			
Clause	Requirement - Test	Result - Remark	Verdict

1.5.1	TABLE: List of critical components					Pass
object/part No.	manufacturer/ trademark	type/model	technical data	standard	mark(s) of conformity ¹⁾	
Power Adapter (Optional)	FSP GROUP INC	FSP065- RABXX	I/P: 100- 240Vac, 50- 60Hz, 1.5A O/P: 19Vdc, 3.42A, Tma 40°C	EN 60950-1	TUV Rh (Cert. No.: S 50144403)	
Battery Pack (optional) for Model RTC- 1000D1	J.S Power Co., Ltd	DR202	11.1Vdc, 7800mAh	--	--	
- Enclosure	Sabic Innovative Plastics Japan L L C	940	V-0, 80 °C, 1.1 mm thick minimum, Overall 148.8 mm by 89.0 mm by 19.0 mm	UL 94, UL 746C	UL	
- Enclosure Adhesive	Teijin Chemicals Ltd	LN-2250	Max. Temp Rating: 60 °C	UL 746C	UL	
- Battery Cell (3S3P, three provided)	Sanyo Energy (U S A) Corp	UR18650F	12.6Vdc, 2600mAh, Lithium ion	UL 1642	UL	
- Protective Circuitry	--	--	--	--	--	
- PWB	Various	Various	V-1 minimum, 105 degree C	UL 796	UL	
- Connector	Various	Various	V-2 min	UL 94	UL	
- Thermal Fuse (F1)	Nec Schott Components Corp	D6X	32Vdc, 12A, 139 °C	EN/UL 60691	VDE, UL	
- Mosfet (U4, U5, U6, U7)	Toshiba	TPC8025	--	--	--	
- Protection IC (U1)	Texas Instrument	BQ20Z90	--	--	--	
- Protection IC (U2)	Texas Instrument	BQ29330	--	--	--	
- Protection IC (U3)	Seiko Instruments Inc	8244AAAFN	--	--	--	
Battery Pack (optional) for Model RTC- 1000AS	Formosan United Corporation	H705084	11.1Vdc, 3500mAh	--	--	
- Plastic Frame for Enclosure	Various	Various	Min. V-2	UL 94, UL 746C	UL	



IEC60950_1B - ATTACHMENT			
Clause	Requirement - Test	Result - Remark	Verdict

1.5.1	TABLE: List of critical components					Pass
object/part No.	manufacturer/ trademark	type/model	technical data	standard	mark(s) of conformity ¹⁾	
- Battery Cells	POWER SOURCE ENERGY CO LTD	H705084	11.1Vdc, 7800mAh, Lithium-ion polymer 3- series, 1- parallel cells provided.	UL 1642	--	
- Protective Circuitry	--	--	--	--	--	
- PWB	Various	Various	V-1 minimum, 105 degree C	UL 796	UL	
- Connector	Various	Various	V-2 min	UL 94	UL	
- Thermal Links (F1)	NEC SCHOTT COMPONENTS CORP	D6X	32 Vdc, 12 A, 139 degree C.	EN/UL 60691	VDE, UL	
- Thermistor (TH1)	Various	Various	NTC type, 10K ohm at 25 degree C	UL 1434	UL	
- Mosfet (Q2, Q3)	VISHAY	Si4410BDY	--	--	--	
- Protection IC (U2)	TEXAXIS INSTRUMENT S	bq20z95	--	--	UL	
- Current Sensing Resistor (R37)	--	--	0.01 ohm, 1W, SMD type.	--	UL	
Telephone Line Cord (Optional)	Various	Various	Minimum No. 26 AWG wire.	UL 1863	UL	
Enclosure for Model RTC- 1000D1	--	AZ91D	Aluminum - Magnesium alloy, overall dimension 270 by 185 by 50 mm, minimum 1.5 mm thickness. Opening: See Appendix Tabel for detail.	--	UL	



IEC60950_1B - ATTACHMENT			
Clause	Requirement - Test	Result - Remark	Verdict

1.5.1	TABLE: List of critical components					Pass
object/part No.	manufacturer/ trademark	type/model	technical data	standard	mark(s) of conformity ¹⁾	
Enclosure for Model RTC-1000AS	--	AZ91D	Aluminum - Magnesium alloy, overall dimension 270 by 185 by 39 mm, minimum 1.5 mm thickness. Opening: See Appendix Tabel for detail.	--	--	
Enclosure for docking station.	Various	Various	HB minimum, overall dimension. See Appendix Tabel for detail.	UL 94, UL 746C	UL	
Mother board A for Model RTC-1000D1	--	--	See below for unit.	--	--	
- Rechargeable Lithium Battery (RTC Battery)	Various	ML1220(I)	Maximum abnormal charging current 300mA. Battery is protected against charging current by multiple components (one diode and one 470 ohm resistor)	UL 1642	UL	
- Protective IC for USB Ports (U29, U1)	RICHTEK TECHNOLOGY CORP	RT9702ACB, RT9702APB, RT9702AGB, RT9702ACJ5, RT9702APJ5, RT9702AGJ5	2-5.5 Vdc, Cont. Current: 1.1A, Prot. Current: 2.0A.	UL 2367	UL	
- Polyswitch for VGA Port (FS6)	LITTELFUSE INC	1206X110	6 V dc, Ih 1.1 A	EN 60738-1, UL 1434	TUV, UL	
- Capacitor (C280, C325) (Optional)	Various	Various	1000pF, 3KV is between CN35 and earth	IEC 60384-14, UL 1283, UL 1414	TUV, UL	
- Modem Module	LSI Coproration	D40	3.3 Vdc	IEC 60950-1, UL 60950-1	TUV, UL	



IEC60950_1B - ATTACHMENT			
Clause	Requirement - Test	Result - Remark	Verdict

1.5.1	TABLE: List of critical components					Pass
object/part No.	manufacturer/ trademark	type/model	technical data	standard	mark(s) of conformity ¹⁾	
- DC fan for CPU	A-power Electronic Co Ltd	BS4005H2B-R	One provided, 5Vdc, 0.3A max., 4.71 CFM max.	UL 507, EN 60950-1	UL, TUV	
- Heatsink for CPU	--	--	AL, see Appendix Tabel for detail.	--	--	
Mother board B for Model RTC-1000AS	--	--	See below for unit.	--	--	
- Rechargeable Lithium Battery (RTC Battery)	Various	ML1220(I)	Maximum abnormal charging current 300mA. Battery is protected against charging current by multiple components (one diode and one 470 ohm resistor)	UL 1642	UL	
- Protective IC for USB Ports (U16, U17)	RICHTEK TECHNOLOGY CORP	RT9702ACB, RT9702APB, RT9702AGB, RT9702ACJ5, RT9702APJ5, RT9702AGJ5	2-5.5 Vdc, Cont. Current: 1.1A, Prot. Current: 2.0A.	UL 2367	UL	
- Polyswitch for VGA Port (FS1)	LITTELFUSE INC	1206X110	6 V dc, Ih 1.1 A	EN 60738-1, UL 1434	TUV, UL	
- Capacitor (C504, C508) (Optional)	Various	Various	1000pF, 3KV is between CN25 and earth	IEC 60384-14, UL 1283, UL 1414	TUV, UL	
- Modem Module	LSI Coproration	D40	3.3 Vdc	IEC 60950-1, UL 60950-1	TUV, UL	
- Heatsink for CPU	--	--	AL, see Appendix Tabel for detail.	--	--	
Main board	--	--	See below for docking station.	--	--	
- Protective IC for USB Ports (U5, U6)	MICREL INC	MIC2026	2.7-5.5 Vdc, Cont. Current: 0.5A, Prot. Current: 1.25A.	UL 2367	UL	



IEC60950_1B - ATTACHMENT			
Clause	Requirement - Test	Result - Remark	Verdict

1.5.1	TABLE: List of critical components					Pass
object/part No.	manufacturer/ trademark	type/model	technical data	standard	mark(s) of conformity ¹⁾	
- Polyswitch for VGA Port (FS2)	LITTELFUSE INC	1206X110	6 V dc, I _h 1.1 A	EN 60738-1, UL 1434	TUV, UL	
Printed Wiring Board	Various	Various	V-1 minimum, 105 degree C.	UL 796	UL	
LCD Panel	LITEMAX Electronics Inc.	CP1082E	10.2 inch, TFT- LCD, LED Backlight	--	--	
	Various	Various	10.2 inch, TFT- LCD, LED Backlight	--	--	
Hard Disk Drive (Optional)	Various	Various	5Vdc, 0.55A maximum	EN 60950-1, UL 60950-1	TUV, UL	
	Western Digital Technologies, Inc.	WD800BEVT	5Vdc, 0.6A maximum	EN 60950-1, UL 60950-1	TUV, UL	
Speaker (one provided)	--	--	4 ohm, 2W maximum	--	--	
Supplementary information: An asterisk indicates a mark that assures the agreed level of surveillance.						



IEC60950_1B - ATTACHMENT			
Clause	Requirement - Test	Result - Remark	Verdict

1.6.2	TABLE: Electrical data (in normal conditions)						Pass
U(V)/f(Hz)	I (A)	I _{rated} (A)	P (W)	Fuse #	I _{fuse} (A)	Condition/status	
--	--	--	--	--	--	For Model: RTC-1000AS	
19Vdc	2.68	3.2	50.92	--	--	Maximum normal load (NO Docking Station)	
19Vdc	1.79	3.2	34.01	--	--	Stand by Charge (NO Docking Station)	
19Vdc	3.17	3.2	60.23	--	--	Maximum normal load (Docking Station)	
19Vdc	1.91	3.2	36.29	--	--	Stand by Charge (Docking Station)	
12.6Vdc	2.32	--	29.23	--	--	Battery discharge	
--	--	--	--	--	--	For Model: RTC-1000D1	
19Vdc	2.31	3.2	43.89	--	--	Maximum normal load (NO Docking Station)	
19Vdc	1.59	3.2	30.21	--	--	Stand by Charge (NO Docking Station)	
19Vdc	2.60	3.2	49.4	--	--	Maximum normal load (Docking Station)	
19Vdc	1.86	3.2	35.34	--	--	Stand by Charge (Docking Station)	
12.6Vdc	2.58	--	32.51	--	--	Battery discharge	
Supplementary information:							
Maximum normal load : Unit connected to pattern generator ,volume of a standard signal was applied to the audio input terminals and speaker and operated continuously with maximum brightness and contrast.							

2.5	TABLE: limited power source measurements						Pass
(Regulating network Limited)							
output tested	measured		single fault condition	measured value (maximum)			
	from	to		U _{oc}	I _{sc} 5s	VA 5s	
For Model: RTC-1000AS							
USB(1) Pin 1	V+	V-	--	4.973	1.44	6.53	
USB(2) Pin 1	V+	V-	--	4.974	1.44	6.24	
Mini USB CN16 Pin 1	V+	V-	--	4.972	1.5	5.93	
USB(1) Pin 1	V+	V-	U16 pin 4-5 Short	4.973	6.9	8.72	
USB(2) Pin 1	V+	V-	U16 pin 4-5 Short	4.974	6.9	8.69	
Mini USB CN16 Pin 1	V+	V-	U17 pin 4-5 Short	4.972	7.0	9.11	



IEC60950_1B - ATTACHMENT						
Clause	Requirement - Test			Result - Remark		Verdict

For Model: RTC-1000D1						
output tested	measured		single fault condition	measured value (maximum)		
	from	to		Uoc	Isc 5s	VA 5s
For Model: RTC-1000D1						
USB(1) Pin 1	V+	V-	--	4.951	1.45	5.89
USB(2) Pin 1	V+	V-	--	4.951	1.45	5.88
Mini USB CN1 Pin 1	V+	V-	--	4.947	1.45	5.93
USB(1) Pin 1	V+	V-	U9 pin 4-5 Short	4.951	6.2	8.45
USB(2) Pin 1	V+	V-	U9 pin 4-5 Short	4.951	6.2	8.49
Mini USB CN1 Pin 1	V+	V-	U1 pin 4-5 Short	4.947	6.1	8.24
(Impedance limited)						
For Model: RTC-1000AS						
VGA Pin 9	V+	V-	--	4.71	1.5	4.8
VGA Pin 12, 15	V+	V-	--	4.325	0.01	0.01
CF Socket CN18 Pin 26	V+	V-	--	2.838	0.01	0.01
PCMCIA Socket CN19 Pin 4, 66	V+	V-	--	2.899	0.01	0.01
SIM Card CN12 Pin 2	V+	V-	--	1.691	0.01	0.01
VGA Pin 9	V+	V-	--	4.71	1.5	4.8
For Model: RTC-1000D1						
VGA Pin 9	V+	V-	--	4.850	1.68	6.01
VGA Pin 12, 15	V+	V-	--	4.447	0.01	0.01
CF Socket CN13 Pin 25	V+	V-	--	2.83	0.01	0.01
CF Socket CN13 Pin 26	V+	V-	--	2.83	0.01	0.01
PCMCIA Socket CN12 Pin 4, 66	V+	V-	--	2.88	0.01	0.01
SIM Card CN3 Pin 2	V+	V-	--	1.691	0.01	0.01



IEC60950_1B - ATTACHMENT			
Clause	Requirement - Test	Result - Remark	Verdict

For Docking Station						
USB(2) Pin 1	V+	V-	--	5.037	1.3	5.62
USB(1) Pin 1	V+	V-	--	5.037	1.3	5.88
USB(3) Pin 1	V+	V-	--	5.038	1.3	5.80
USB(4) Pin 1	V+	V-	--	5.038	1.3	5.92
VGA Pin 9	V+	V-	--	4.988	1.54	5.53
VGA Pin 12,15	V+	V-	--	4.667	0.01	0.01
(Inherently limited)						
output tested	measured		single fault condition	measured value (maximum)		
	from	to		Uoc	Isc 60s	VA 60s
For Model: RTC-1000AS						
VGA Pin 1-8, 10-11, 13-14	V+	V-	--	0	--	--
CF Socket CN18 Pin 1-24, 27-50	V+	V-	--	0	--	--
PCMCIA Socket CN19, Pin 1-3, 5-65, 67-68	V+	V-	--	0	--	--
SIM Card CN12 Pin 1, 3-6	V+	V-	--	0	--	--
USB(1) Pin 2-4	V+	V-	--	0	--	--
USB(2) Pin 2-4	V+	V-	--	0	--	--
USB(1) Pin 2-4	V+	V-	U16 pin 4-5 Short	0	--	--
USB(2) Pin 2-4	V+	V-	U16 pin 4-5 Short	0	--	--
Mini USB CN16 Pin 2-4	V+	V-	U17 pin 4-5 Short	0	--	--
RS232 All Pins	V+	V-	--	0	--	--
RJ11 All Pins	V+	V-	--	0	--	--
Red Audio	V+	V-	--	0	--	--
Green	V+	V-	--	0	--	--



IEC60950_1B - ATTACHMENT						
Clause	Requirement - Test		Result - Remark			Verdict
Audio						
RJ45 All Pins	V+	V-	--	0	--	--
For Model: RTC-1000D1						
VGA Pin 1-8,10-11,13-14	V+	V-	--	0	--	--
CF Socket CN13, Pin 1-24,27-50	V+	V-	--	0	--	--
PCMCIA Socket CN12, Pin 1-3,5-65,67-68	V+	V-	--	0	--	--
SIM Card CN3, Pin 1,3-6	V+	V-	--	0	--	--
USB(2) Pin 2-4	V+	V-	--	0	--	--
Mini USB CN1, Pin 2-4	V+	V-	--	0	--	--
USB(1) Pin 2-4	V+	V-	U9 pin 4-5 Short	0	--	--
USB(2) Pin 2-4	V+	V-	U9 pin 4-5 Short	0	--	--
Mini USB CN1, Pin 2-4	V+	V-	U1 pin 4-5 Short	0	--	--
RS232 All Pins	V+	V-	--	0	--	--
RJ11 All Pins	V+	V-	--	0	--	--
Red Audio	V+	V-	--	0	--	--
Green Audio	V+	V-	--	0	--	--
RJ45 All Pins	V+	V-	--	0	--	--
For Docking Station						
USB(1) Pin 2-4	V+	V-	--	0	--	--
USB(2) Pin 2-4	V+	V-	--	0	--	--
USB(3) Pin 2-4	V+	V-	--	0	--	--
USB(4) Pin 2-4	V+	V-	--	0	--	--
VGA Pin 1-8, 10-11,	V+	V-	--	0	--	--



IEC60950_1B - ATTACHMENT						
Clause	Requirement - Test			Result - Remark		Verdict
13-14						
RJ45 All Pins	V+	V-	--	0	--	--
RS232 All Pins	V+	V-	--	0	--	--
Note : --						

4.3.8	TABLE: Batteries								Pass
	Non-rechargeable batteries			Rechargeable batteries					
	Discharging		Un-intentional charging	Charging		Discharging		Reversed charging	
	Meas. current	Manuf. Specs.		Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.
For Model: RTC-1000AS									
Max. current during normal condition	--	--	--	2000mA	2000mA	--	--	--	--
Max. A during fault condition 1	--	--	--	2000mA	2000mA	--	--	--	--
Max. A during fault condition 2	--	--	--	--	--	3000mA	3000mA	--	--
For Model: RTC-1000D1									
Max. current during normal condition	--	--	--	2500mA	2500mA	--	--	--	--
Max. A during fault condition 1	--	--	--	2500mA	2500mA	--	--	--	--
Max. A during fault condition 2	--	--	--	--	--	5890mA	5890mA	--	--
Note :									
For Model: RTC-1000AS									
1. Fault condition 1: Q2 Pin 1, 2, 3 - Pin 5, 6, 7, 8, Short; C.C mode, change 2000mA.									
2. Fault condition 2: Q3 Pin 1, 2, 3 - Pin 5, 6, 7, 8, Short; Discharge 3000mA.									
For Model: RTC-1000D1									
1. Fault condition 1: U4 Pin 1 - Pin 8 Short; C.C mode, change 2500mA.									
2. Fault condition 2: U6 Pin 1 - Pin 8 Short; Discharge 5890mA.									



IEC60950_1B - ATTACHMENT

Clause	Requirement - Test	Result - Remark	Verdict
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4.5	TABLE: Temperature rise measurements		Pass	
	test voltage (V)	See below	—	
	t _{amb1} (°C)	See below	—	
	t _{amb2} (°C)	See below	—	
	maximum temperature T of part/at::	T (°C)	allowed T _{max} (°C)	
	For Model: RTC-1000AS	Maximum Normal Load at 19Vdc, Charge (Normal),0°	Maximum Normal Load at 19Vdc, Charge(Normal),45°	--
	01.Ambient	35.0	35.2	--
	For Touch board	--	--	--
	02.L1 coil	66.2	66.1	105
	03.PWB under D1	63.1	62.6	105
	For Main board	--	--	--
	04.DC jack	53.5	54.5	75
	05.L14 coil	64.3	65.9	105
	06.RTC body	58.0	58.4	100
	07.PWB under U6	68.2	69.0	105
	08.PWB under U1	59.0	59.1	105
	09.PWB under TF1	50.1	51.1	105
	For RXTX board	--	--	--
	10.RXTX board	57.6	58.5	105
	For Battery Pack	--	--	--
	11.Wire Line	49.9	50.2	80
	12.R37 body	50.8	50.9	105
	13.PWB under U2	54.9	51.1	105
	14.PWB under Q3	55.8	53.4	105
	15.PWB under Q3	56.2	54.1	105
	16.cell body inside	49.0	49.0	100
	17.cell body outside	47.9	48.1	100
	18.Metal Enclosure outside near top	43.3	44.2	55
	19.Panel body	40.0	39.9	75
	For Docking Station	--	--	--
	20.PWB under U3	60.9	60.2	105



IEC60950_1B - ATTACHMENT			
Clause	Requirement - Test	Result - Remark	Verdict
21.L1 coil	69.1	69.2	105
22.CE2 body	61.1	60.5	85
23.Plastic Enclosure inside near connect	46.2	45.4	--
24.Plastic Enclosure outside near connect	41.4	40.1	95
25.Metel Enclosure outside near bottom	39.9	40.2	70
Test duration:	3.4hrs	2.5hrs	--
--	Maximum Normal Load at 19Vdc, DisCharge (Normal)	Maximum Normal Load at 19Vdc (Shift to Tma 35 degree C), DisCharge (Normal)	--
01.Ambient	34.8	35.0	--
For Touch board	--	--	--
02.L1 coil	60.8	61.0	105
03.PWB under D1	57.6	57.8	105
For Main board	--	--	--
04.DC jack	42.3	42.5	75
05.L14 coil	45.8	46.0	105
06.RTC body	50.5	50.7	100
07.PWB under U6	61.0	61.2	105
08.PWB under U1	50.6	50.8	105
09.PWB under TF1	43.6	43.8	105
For RXTX board	--	--	--
10.RXTX board	52.5	52.7	105
For Battery Pack	--	--	--
11.Wire Line	44.0	44.2	80
12.R37 body	46.1	46.3	105
13.PWB under U2	46.7	46.9	105
14.PWB under Q3	49.1	49.3	105
15.PWB under Q3	49.9	50.1	105
16.cell body inside	45.5	45.7	100
17.cell body outside	43.7	43.9	100
18.Metel Enclosure outside near top	41.4	41.6	55
19.Panel body	39.1	39.3	75
Test duration:	3.2hrs	3.2hrs	--



IEC60950_1B - ATTACHMENT

Clause	Requirement - Test	Result - Remark	Verdict
For Model: RTC-1000D1	Maximum Normal Load at 19Vdc, Charge (Normal),0°	Maximum Normal Load at 19Vdc (Shift to Tma 40 degree C), Charge (Normal),0°	--
01.Ambient	39.6	40.0	--
For Touch board	--	--	--
02.L1 coil	79.4	79.8	105
03.PWB under D1	75.6	76.0	105
For Main board	--	--	--
04.DC jack	64.5	64.9	75
05.L14 coil	62.8	63.2	105
06.RTC body	65.7	66.1	100
07.PWB under U6	75.4	75.8	105
08.PWB under U1	60.1	60.5	105
09.PWB under TF1	56.8	57.2	105
For RXTX board	--	--	--
10.RXTX board	71.1	71.5	105
For Battery Pack	--	--	--
11.Wire Line	58.9	59.3	80
12.R37 body	58.9	59.3	105
13.PWB under U2	59.0	59.4	105
14.PWB under Q3	58.8	59.2	105
15.PWB under Q3	58.4	58.8	105
16.cell body inside	53.0	53.4	100
17.cell body outside	50.5	50.9	100
18.Metal Enclosure outside near top	46.3	46.7	55
19.Panel body	46.0	46.4	75
For Docking Station	--	--	--
20.PWB under U3	65.4	65.8	105
21.L1 coil	69.7	70.1	105
22.CE2 body	63.9	64.3	85
23.Plastic Enclosure inside near connect	54.3	54.7	
24.Plastic Enclosure outside near connect	47.9	48.3	95
25.Metal Enclosure outside near bottom	45.0	45.4	70



IEC60950_1B - ATTACHMENT

Clause	Requirement - Test	Result - Remark	Verdict	
Test duration:		3.4hrs	3.4hrs	--
--	Maximum Normal Load at 19Vdc (Shift to Tma 40 degree C), Charge(Normal),45°		--	--
01.Ambient		40.0	--	--
For Touch board		--	--	--
02.L1 coil		78.5	--	105
03.PWB under D1		74.3	--	105
For Main board		--	--	--
04.DC jack		63.4	--	75
05.L14 coil		62.4	--	105
06.RTC body		65.0	--	100
07.PWB under U6		74.7	--	105
08.PWB under U1		60.1	--	105
09.PWB under TF1		56.8	--	105
For RXTX board		--	--	--
10.RXTX board		70.5	--	105
For Battery Pack		--	--	--
11.Wire Line		58.6	--	80
12.R37 body		58.8	--	105
13.PWB under U2		59.0	--	105
14.PWB under Q3		58.8	--	105
15.PWB under Q3		58.4	--	105
16.cell body inside		53.0	--	100
17.cell body outside		50.8	--	100
18.Metel Enclosure outside near top		47.5	--	55
19.Panel body		44.5	--	75
For Docking Station		--	--	--
20.PWB under U3		64.2	--	105
21.L1 coil		69.7	--	105
22.CE2 body		63.0	--	85
23.Plastic Enclosure inside near connect		52.1	--	
24.Plastic Enclosure outside near connect		43.6	--	95



IEC60950_1B - ATTACHMENT			
Clause	Requirement - Test	Result - Remark	Verdict
25.Metel Enclosure outside near bottom	45.0	--	70
Test duration:	3.2hrs	--	--
--	Maximum Normal Load at 19Vdc (Shift to Tma 40 degree C), DisCharge (Normal)	--	--
01.Ambient	41.3	--	--
For Touch board	--	--	--
02.L1 coil	74.5	--	105
03.PWB under D1	71.2	--	105
For Main board	--	--	--
04.DC jack	56.0	--	75
05.L14 coil	53.2	--	105
06.RTC body	61.1	--	100
07.PWB under U6	70.2	--	105
08.PWB under U1	57.2	--	105
09.PWB under TF1	54.5	--	105
For RXTX board	--	--	--
10.RXTX board	65.1	--	105
For Battery Pack	--	--	--
11.Wire Line	58.7	--	80
12.R37 body	60.3	--	105
13.PWB under U2	58.3	--	105
14.PWB under Q3	60.1	--	105
15.PWB under Q3	59.2	--	105
16.cell body inside	54.1	--	100
17.cell body outside	48.4	--	100
18.Metel Enclosure outside near top	46.4	--	55
19.Panel body	45.1	--	75
Test duration:	4.7hrs	--	--
--	Maximum Normal Load at discharge output: 17mA, DisCharge(RTC)	Maximum Normal Load at discharge output: 17mA (Shift to Tma 40 degree C), DisCharge(RTC)	--
01.Ambient	24.2	40.0	--
02.RTC body	24.4	40.2	100



IEC60950_1B - ATTACHMENT			
Clause	Requirement - Test	Result - Remark	Verdict

Test duration:	3.4hrs	3.4hrs	--
<p>Supplementary information:</p> <p>The temperatures were measured under worst case normal mode defined in 1.2.2.1 and as described in 1.6.1 at voltages as described in 1.4.5.</p> <p>The max. ambient temperature T_{max} is defined at for Model RTC-1000AS: 35°C and for Model RTC-1000D1: 40°C. Therefore the maximum temperatures measured are recalculated.</p> <p>Components with:</p> <ul style="list-style-type: none"> - max. absolute temp. of 85 °C (Capacitor) $T_{max} = 85$ °C - max. absolute temp. of 105 °C (Chock) $T_{max} = 105$ °C - max. absolute temp. of 105 °C (PWB) $T_{max} = 105$ °C - max. absolute temp. of 100 °C (RTC Battery, Battery Cell) $T_{max} = 100$ °C - max. absolute temp. of 75 °C (Panel body) $T_{max} = 75$ °C - when no class of insulation is given, minimum insulation 105°C assumed. <p>User accessible area:</p> <ul style="list-style-type: none"> - Metal enclosure which may be touch temp. 55°C $T_{max} = 55$°C 			

5.1.8.1	TABLE: touch current test (Single-Phase Equipment, Figure 5A)					Pass
Terminal A of Measuring Instrument Connected to	Test Voltage	Switch "e" Position	Polarity P1/Primary Switch Condition			
			Normal/On	Normal/Off	Reverse/On	Reverse/Off
For Mother board A (Model: RTC-1000D1) with power adapter (FSP Group Inc, Model : FSP065-RAB)						
TNC (RJ-11)	264	Open	0.08	0.08	0.08	0.08
For Mother board B (Model: RTC-1000AS) with power adapter (FSP Group Inc, Model : FSP065-RAB)						
TNC(RJ-11)	264	Open	0.08	0.08	0.08	0.08
Notes: The limited did not exceed 0.25 mA r.m.s Single-Phase equipment- Test circuit Fig. 5A						

5.2	TABLE: Electric strength tests and impulse tests		Pass
test voltage applied between:		test voltage (V)	Breakdown Yes / No
For Mother board A, B			
Impulse Test: RJ-11(TNC) / Output connector		1500 Vac	No
Impulse Test: RJ-11(TNC) / Metal enclosure		2500 Vac	No
Impulse Test: RJ-11(TNC) / Panel body with foil		2500 Vac	No



IEC60950_1B - ATTACHMENT			
Clause	Requirement - Test	Result - Remark	Verdict
	Steady-State Test: RJ-11(TNC) / Output connector	1500 Vac	No
	Steady-State Test: RJ-11(TNC) / Metal enclosure	1500 Vac	No
	Steady-State Test: RJ-11(TNC) / Panel body with foil	1500 Vac	No
Note: --			

5.3	TABLE: Fault condition tests					Pass
	ambient temperature (°C)		See below			---
	model/type of power supply		See Table 1.5.1 for details			---
	manufacturer of power supply		See Table 1.5.1 for details			---
	rated markings of power supply		See Table 1.5.1 for details			---
component No.	fault	test voltage (V)	test time	fuse No.	fuse current (A)	result
5.3.1 - 5.3.9 - Abnormal Operation Tests						
--	--	--	--	--	--	For Model: RTC-1000D1
01. Stalled System fans,0°	Stalled	19Vdc	6.5hrs	--	--	NC,NT,CT Measured fuse current:2.60A Ambient:20.1/40.0degree C Max temp 02.L1 coil:79.2/99.1degree C
02. Ventilation openings Blocked,0°	Blocked	19Vdc	7.6hrs	--	--	NC,NT,CT Measured fuse current:2.60A Ambient:18.9/40.0degree C Max temp 02.L1 coil:78.0/99.1degree C
5.3.7 - OVERLOAD OF OPERATOR ACCESSIBLE CONNECTOR TEST						
--	--	--	--	--	--	For Model: RTC-1000AS
VGA Pin 9	Overload	19Vdc	1hr	--	--	Open Voltage: 4.71 Maximum Current: 1200mA,NC,NT
VGA Pin 12,15	Overload	19Vdc	1hr	--	--	Open Voltage: 4.325 Maximum Current: 10mA,NC,NT
VGA Pin 1-8,10-11,13-14	Overload	19Vdc	--	--	--	Open Voltage: 0
CF Socket CN18Pin 25	Overload	19Vdc	1hr	--	--	Open Voltage: 2.839 Maximum Current: 10mA,NC,NT
CF Socket CN18Pin 26	Overload	19Vdc	1hr	--	--	Open Voltage: 2.838 Maximum Current: 10mA,NC,NT



IEC60950_1B - ATTACHMENT						
Clause	Requirement - Test			Result - Remark		Verdict
CF Socket CN18Pin 1- 24,27-50	Overload	19Vdc	--	--	--	Open Voltage: 0
PCMCIA Socket CN19Pin 4,66	Overload	19Vdc	1hr	--	--	Open Voltage: 2.899 Maximum Current: 10mA,NC,NT
PCMCIA Socket CN19Pin 1- 3,5-65,67-68	Overload	19Vdc	--	--	--	Open Voltage: 0
SIM Card CN12Pin 2	Overload	19Vdc	1hr	--	--	Open Voltage: 1.691 Maximum Current: 10mA,NC,NT
SIM Card CN12Pin 1,3-6	Overload	19Vdc	--	--	--	Open Voltage: 0
USB(1)Pin 1	Overload	19Vdc	1hr	--	--	Open Voltage: 4.973 Maximum Current: 1140mA,NC,NT
USB(1)Pin 2-4	Overload	19Vdc	--	--	--	Open Voltage: 0
USB(2)Pin 1	Overload	19Vdc	1hr	--	--	Open Voltage: 4.974 Maximum Current: 1140mA,NC,NT
USB(2)Pin 2-4	Overload	19Vdc	--	--	--	Open Voltage: 0
Mini USB CN16Pin 1	Overload	19Vdc	1hr	--	--	Open Voltage: 4.972 Maximum Current: 1200mA,NC,NT
Mini USB CN16Pin 2- 4	Overload	19Vdc	--	--	--	Open Voltage: 0
RS232 All Pins	Overload	19Vdc	--	--	--	Open Voltage: 0
RJ11 All Pins	Overload	19Vdc	--	--	--	Open Voltage: 0
Red Audio All Pins	Overload	19Vdc	--	--	--	Open Voltage: 0
Green Audio All Pins	Overload	19Vdc	--	--	--	Open Voltage: 0
RJ45 All Pins	Overload	19Vdc	--	--	--	Open Voltage: 0
--	--	--	--	--	--	For Model: RTC-1000D1
VGA Pin 9	Overload	19Vdc	1hr	--	--	Open Voltage: 4.850 Maximum Current: 1380mA,NC,NT
VGA Pin 12,15	Overload	19Vdc	1hr	--	--	Open Voltage: 4.447 Maximum Current: 10mA,NC,NT



IEC60950_1B - ATTACHMENT						
Clause	Requirement - Test			Result - Remark		Verdict
VGA Pin 1-8,10-11,13-14	Overload	19Vdc	--	--	--	Open Voltage: 0
CF Socket CN13 Pin 25	Overload	19Vdc	1hr	--	--	Open Voltage: 2.83 Maximum Current: 10mA,NC,NT
CF Socket CN13 Pin 26	Overload	19Vdc	1hr	--	--	Open Voltage: 2.83 Maximum Current: 10mA,NC,NT
CF Socket CN13 Pin 1-24,27-50	Overload	19Vdc	--	--	--	Open Voltage: 0
PCMCIA Socket CN12 Pin 4,66	Overload	19Vdc	1hr	--	--	Open Voltage: 2.88 Maximum Current: 10mA,NC,NT
PCMCIA Socket CN12 Pin 1-3,5-65,67-68	Overload	19Vdc	--	--	--	Open Voltage: 0
SIM Card CN3 Pin 2	Overload	19Vdc	1hr	--	--	Open Voltage: 1.691 Maximum Current: 10mA,NC,NT
SIM Card CN3 Pin 1,3-6	Overload	19Vdc	--	--	--	Open Voltage: 0
USB(1) Pin 1	Overload	19Vdc	1hr	--	--	Open Voltage: 4.951 Maximum Current: 1150mA,NC,NT
USB(1) Pin 2-4	Overload	19Vdc	--	--	--	Open Voltage: 0
USB(2) Pin 1	Overload	19Vdc	1hr	--	--	Open Voltage: 4.951 Maximum Current: 1150mA,NC,NT
USB(2)Pin 2-4	Overload	19Vdc	--	--	--	Open Voltage: 0
Mini USB CN1 Pin 1	Overload	19Vdc	1hr	--	--	Open Voltage: 4.947 Maximum Current: 1150mA,NC,NT
Mini USB CN1 Pin 2-4	Overload	19Vdc	--	--	--	Open Voltage: 0
RS232 All Pins	Overload	19Vdc	--	--	--	Open Voltage: 0
RJ11 All Pins	Overload	19Vdc	--	--	--	Open Voltage: 0
Red Audio All Pins	Overload	19Vdc	--	--	--	Open Voltage: 0
Green Audio All Pins	Overload	19Vdc	--	--	--	Open Voltage: 0
RJ45 All Pins	Overload	19Vdc	--	--	--	Open Voltage: 0



IEC60950_1B - ATTACHMENT						
Clause	Requirement - Test			Result - Remark		Verdict
--	--	--	--	--	--	For Docking Station
USB(1) Pin 1	Overload	19Vdc	1hr	--	--	Open Voltage: 5.037 Maximum Current: 1000mA,NC,NT
USB(1) Pin 2-4	Overload	19Vdc	--	--	--	Open Voltage: 0
USB(2) Pin 1	Overload	19Vdc	1hr	--	--	Open Voltage: 5.037 Maximum Current: 1000mA,NC,NT
USB(2) Pin 2-4	Overload	19Vdc	--	--	--	Open Voltage: 0
USB(3) Pin 1	Overload	19Vdc	1hr	--	--	Open Voltage: 5.038 Maximum Current: 1000mA,NC,NT
USB(3) Pin 2-4	Overload	19Vdc	--	--	--	Open Voltage: 0
USB(4) Pin 1	Overload	19Vdc	1hr	--	--	Open Voltage: 5.038 Maximum Current: 1000mA,NC,NT
USB(4) Pin 2-4	Overload	19Vdc	--	--	--	Open Voltage: 0
VGA Pin 9	Overload	19Vdc	1hr	--	--	Open Voltage: 4.988 Maximum Current: 1240mA,NC,NT
VGA Pin 12,15	Overload	19Vdc	1hr	--	--	Open Voltage: 4.667 Maximum Current: 10mA,NC,NT
VGA Pin 1-8,10-11,13-14	Overload	19Vdc	--	--	--	Open Voltage: 0
RJ45 All Pins	Overload	19Vdc	--	--	--	Open Voltage: 0
RS232 All Pins	Overload	19Vdc	--	--	--	Open Voltage: 0
Supplementary information: NB: No indication of dielectric breakdown; NC: Cheesecloth remained intact; NT: Tissue paper remained. CT: Constant Temperature Obtained.						



National Differences

EUROPEAN

* No National Differences Declared

** Only Group Difference



IEC60950_1B - ATTACHMENT			
Clause	Requirement - Test	Result - Remark	Verdict

ATTACHMENT TO TEST REPORT IEC 60950-1 EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES Information technology equipment – Safety – Part 1: General requirements			
Differences according to..... : EN 60950-1:2006/A11:2009/A1:2010			
Attachment Form No..... : EU_GD_IEC60950_1B			
Attachment Originator : SGS Fimko Ltd			
Master Attachment..... : Date (2010-04)			
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EN 60950-1:2006/A11:2009/A1:2010 – CENELEC COMMON MODIFICATIONS
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IEC 60950-1, GROUP DIFFERENCES (CENELEC common modifications EN)			
Clause	Requirement + Test	Result - Remark	Verdict
Contents	Add the following annexes: Annex ZA (normative) Normative references to international publications with their corresponding European publications Annex ZB (normative) Special national conditions		Pass
General	Delete all the "country" notes in the reference document (IEC 60950-1:2005) according to the following list: 1.4.8 Note 2 1.5.1 Note 2 & 3 1.5.7.1 Note 1.5.8 Note 2 1.5.9.4 Note 1.7.2.1 Note 4, 5 & 6 2.2.3 Note 2.2.4 Note 2.3.2 Note 2.3.2.1 Note 2 2.3.4 Note 2 2.6.3.3 Note 2 & 3 2.7.1 Note 2.10.3.2 Note 2 2.10.5.13 Note 3 3.2.1.1 Note 3.2.4 Note 3. 2.5.1 Note 2 4.3.6 Note 1 & 2 4.7 Note 4 4.7.2.2 Note 4.7.3.1 Note 2 5.1.7.1 Note 3 & 4 5.3.7 Note 1 6 Note 2 & 5 6.1.2.1 Note 2 6.1.2.2 Note 6.2.2 Note 6.2.2.1 Note 2 6.2.2.2 Note 7.1 Note 3 7.2 Note 7.3 Note 1 & 2 G.2.1 Note 2 Annex H Note 2		Pass
General (A1:2010)	Delete all the "country" notes in the reference document (IEC 60950-1:2005/A1:2010) according to the following list: 1.5.7.1 Note 6.1.2.1 Note 2 6.2.2.1 Note 2 EE.3 Note		N/A



IEC60950_1B - ATTACHMENT			
Clause	Requirement - Test	Result - Remark	Verdict

IEC 60950-1, GROUP DIFFERENCES (CENELEC common modifications EN)			
Clause	Requirement + Test	Result - Remark	Verdict
1.3.Z1	<p>Add the following subclause:</p> <p>1.3.Z1 Exposure to excessive sound pressure</p> <p>The apparatus shall be so designed and constructed as to present no danger when used for its intended purpose, either in normal operating conditions or under fault conditions, particularly providing protection against exposure to excessive sound pressures from headphones or earphones.</p> <p>NOTE Z1 A new method of measurement is described in EN 50332-1, Sound system equipment:</p> <p>Headphones and earphones associated with portable audio equipment - Maximum sound pressure level measurement methodology and limit considerations - Part 1: General method for "one package equipment", and in EN 50332-2, Sound system equipment: Headphones and earphones associated with portable audio equipment - Maximum sound pressure level measurement methodology and limit considerations - Part 2: Guidelines to associate sets with headphones coming from different manufacturers.</p>		N/A
1.5.1	<p>Add the following NOTE:</p> <p>NOTE Z1 The use of certain substances in electrical and electronic equipment is restricted within the EU: see Directive 2002/95/EC</p>		N/A
1.7.2.1 (A1:2010)	<p>In addition, for a PORTABLE SOUND SYSTEM, the instructions shall include a warning that excessive sound pressure from earphones and headphones can cause hearing loss.</p>		N/A



IEC60950_1B - ATTACHMENT			
Clause	Requirement - Test	Result - Remark	Verdict

IEC 60950-1, GROUP DIFFERENCES (CENELEC common modifications EN)			
Clause	Requirement + Test	Result - Remark	Verdict
2.7.1	<p>Replace the subclause as follows: Basic requirements To protect against excessive current, short-circuits and earth faults in PRIMARY CIRCUITS, protective devices shall be included either as integral parts of the equipment or as parts of the building installation, subject to the following, a), b) and c):</p> <p>except as detailed in b) and c), protective devices necessary to comply with the requirements of 5.3 shall be included as parts of the equipment; b) for components in series with the mains input to the equipment such as the supply cord, appliance coupler, r.f.i. filter and switch, short-circuit and earth fault protection may be provided by protective devices in the building installation;</p>		Pass
	<p>c) it is permitted for PLUGGABLE EQUIPMENT TYPE B or PERMANENTLY CONNECTED EQUIPMENT, to rely on dedicated overcurrent and short-circuit protection in the building installation, provided that the means of protection, e.g. fuses or circuit breakers, is fully specified in the installation instructions. If reliance is placed on protection in the building installation, the installation instructions shall so state, except that for PLUGGABLE EQUIPMENT TYPE A the building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet.</p>		N/A
2.7.2	This subclause has been declared 'void'.		N/A
3.2.3	Delete the NOTE in Table 3A, and delete also in this table the conduit sizes in parentheses.		N/A



IEC60950_1B - ATTACHMENT			
Clause	Requirement - Test	Result - Remark	Verdict

IEC 60950-1, GROUP DIFFERENCES (CENELEC common modifications EN)									
Clause	Requirement + Test	Result - Remark	Verdict						
3.2.5.1	<p>Replace “60245 IEC 53” by “H05 RR-F”; “60227 IEC 52” by “H03 VV-F or H03 VVH2-F”; “60227 IEC 53” by “H05 VV-F or H05 VVH2-F2”.</p> <p>In Table 3B, replace the first four lines by the following:</p> <table style="margin-left: 20px;"> <tr> <td>Up to and including 6 </td> <td>0,75^{a)} </td> </tr> <tr> <td>Over 6 up to and including 10 </td> <td>(0,75)^{b)} 1,0 </td> </tr> <tr> <td>Over 10 up to and including 16 </td> <td>(1,0)^{c)} 1,5 </td> </tr> </table> <p>In the conditions applicable to Table 3B delete the words “in some countries” in condition^{a)}.</p> <p>In NOTE 1, applicable to Table 3B, delete the second sentence.</p>	Up to and including 6	0,75 ^{a)}	Over 6 up to and including 10	(0,75) ^{b)} 1,0	Over 10 up to and including 16	(1,0) ^{c)} 1,5		N/A
Up to and including 6	0,75 ^{a)}								
Over 6 up to and including 10	(0,75) ^{b)} 1,0								
Over 10 up to and including 16	(1,0) ^{c)} 1,5								
3.3.4	<p>In Table 3D, delete the fourth line: conductor sizes for 10 to 13 A, and replace with the following:</p> <table style="margin-left: 20px;"> <tr> <td>Over 10 up to and including 16 </td> <td>1,5 to 2,5 </td> <td>1,5 to 4 </td> </tr> </table> <p>Delete the fifth line: conductor sizes for 13 to 16 A</p>	Over 10 up to and including 16	1,5 to 2,5	1,5 to 4		N/A			
Over 10 up to and including 16	1,5 to 2,5	1,5 to 4							
4.3.13.6 (A1:2010)	<p>Replace the existing NOTE by the following:</p> <p>NOTE Z1 Attention is drawn to:</p> <p>1999/519/EC: Council Recommendation on the limitation of exposure of the general public to electromagnetic fields 0 Hz to 300 GHz, and</p> <p>2006/25/EC: Directive on the minimum health and safety requirements regarding the exposure of workers to risks arising from physical agents (artificial optical radiation).</p> <p>Standards taking into account mentioned Recommendation and Directive which demonstrate compliance with the applicable EU Directive are indicated in the OJEC.</p>		N/A						



IEC60950_1B - ATTACHMENT			
Clause	Requirement - Test	Result - Remark	Verdict

IEC 60950-1, GROUP DIFFERENCES (CENELEC common modifications EN)			
Clause	Requirement + Test	Result - Remark	Verdict
Annex H	<p>Replace the last paragraph of this annex by:</p> <p>At any point 10 cm from the surface of the OPERATOR ACCESS AREA, the dose rate shall not exceed 1 μSv/h (0,1 mR/h) (see NOTE). Account is taken of the background level.</p> <p>Replace the notes as follows:</p> <p>NOTE These values appear in Directive 96/29/Euratom.</p> <p>Delete NOTE 2.</p>		N/A
Bibliography	Additional EN standards.		—

ZA	NORMATIVE REFERENCES TO INTERNATIONAL PUBLICATIONS WITH THEIR CORRESPONDING EUROPEAN PUBLICATIONS		—
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ZB ANNEX (normative) SPECIAL NATIONAL CONDITIONS (EN)			
Clause	Requirement + Test	Result - Remark	Verdict
1.2.4.1	In Denmark, certain types of Class I appliances (see 3.2.1.1) may be provided with a plug not establishing earthing conditions when inserted into Danish socket-outlets.		N/A
1.2.13.14	In Norway and Sweden, for requirements see 1.7.2.1 and 7.3 of this annex.		N/A
1.5.7.1	In Finland, Norway and Sweden, resistors bridging BASIC INSULATION in CLASS I PLUGGABLE EQUIPMENT TYPE A must comply with the requirements in 1.5.7.1. In addition when a single resistor is used, the resistor must withstand the resistor test in 1.5.7.2.		N/A
1.5.8	In Norway, due to the IT power system used (see annex V, Figure V.7), capacitors are required to be rated for the applicable line-to-line voltage (230 V).		N/A
1.5.9.4	In Finland, Norway and Sweden, the third dashed sentence is applicable only to equipment as defined in 6.1.2.2 of this annex.		N/A



IEC60950_1B - ATTACHMENT			
Clause	Requirement - Test	Result - Remark	Verdict

ZB ANNEX (normative) SPECIAL NATIONAL CONDITIONS (EN)			
Clause	Requirement + Test	Result - Remark	Verdict
1.7.2.1	<p>In Finland, Norway and Sweden, CLASS I PLUGGABLE EQUIPMENT TYPE A intended for connection to other equipment or a network shall, if safety relies on connection to protective earth or if surge suppressors are connected between the network terminals and accessible parts, have a marking stating that the equipment must be connected to an earthed mains socket-outlet.</p> <p>The marking text in the applicable countries shall be as follows:</p> <p>In Finland: "Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan"</p> <p>In Norway: "Apparatet må tilkoples jordet stikkontakt"</p> <p>In Sweden: "Apparaten skall anslutas till jordat uttag"</p> <p>In Norway and Sweden, the screen of the cable distribution system is normally not earthed at the entrance of the building and there is normally no equipotential bonding system within the building. Therefore the protective earthing of the building installation need to be isolated from the screen of a cable distribution system.</p> <p>It is however accepted to provide the insulation external to the equipment by an adapter or an interconnection cable with galvanic isolator, which may be provided by e.g. a retailer.</p>		N/A



IEC60950_1B - ATTACHMENT			
Clause	Requirement - Test	Result - Remark	Verdict

ZB ANNEX (normative) SPECIAL NATIONAL CONDITIONS (EN)			
Clause	Requirement + Test	Result - Remark	Verdict
	<p>The user manual shall then have the following or similar information in Norwegian and Swedish language respectively, depending on in what country the equipment is intended to be used in:</p> <p>“Equipment connected to the protective earthing of the building installation through the mains connection or through other equipment with a connection to protective earthing – and to a cable distribution system using coaxial cable, may in some circumstances create a fire hazard. Connection to a cable distribution system has therefore to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728-11).”</p> <p>NOTE In Norway, due to regulation for installations of cable distribution systems, and in Sweden, a galvanic isolator shall provide electrical insulation below 5 MHz. The insulation shall withstand a dielectric strength of 1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 min.</p> <p>Translation to Norwegian (the Swedish text will also be accepted in Norway):</p> <p>“Utstyr som er koplet til beskyttelsesjord via nettplugg og/eller via annet jordtilkøpelt utstyr – og er tilkøpelt et kabel-TV nett, kan forårsake brannfare. For å unngå dette skal det ved tilkøpling av utstyret til kabel-TV nettet installeres en galvanisk isolator mellom utstyret og kabel- TV nettet.”</p> <p>Translation to Swedish:</p> <p>”Utrustning som är kopplad till skyddsjord via jordat vägguttag och/eller via annan utrustning och samtidigt är kopplad till kabel-TV nät kan i vissa fall medföra risk för brand. För att undvika detta skall vid anslutning av utrustningen till kabel-TV nät galvanisk isolator finnas mellan utrustningen och kabel-TV nätet.”</p>		N/A



IEC60950_1B - ATTACHMENT			
Clause	Requirement - Test	Result - Remark	Verdict

ZB ANNEX (normative) SPECIAL NATIONAL CONDITIONS (EN)			
Clause	Requirement + Test	Result - Remark	Verdict
1.7.5	<p>In Denmark, socket-outlets for providing power to other equipment shall be in accordance with the Heavy Current Regulations, Section 107-2-D1, Standard Sheet DK 1-3a, DK 1-5a or DK 1-7a, when used on Class I equipment. For STATIONARY EQUIPMENT the socket-outlet shall be in accordance with Standard Sheet DK 1-1b or DK 1-5a.</p> <p>For CLASS II EQUIPMENT the socket outlet shall be in accordance with Standard Sheet DKA 1-4a.</p>		N/A
2.2.4	In Norway, for requirements see 1.7.2.1, 6.1.2.1 and 6.1.2.2 of this annex.		N/A
2.3.2	In Finland, Norway and Sweden there are additional requirements for the insulation. See 6.1.2.1 and 6.1.2.2 of this annex.		N/A
2.3.4	In Norway, for requirements see 1.7.2.1, 6.1.2.1 and 6.1.2.2 of this annex.		N/A
2.6.3.3	In the United Kingdom, the current rating of the circuit shall be taken as 13 A, not 16 A.		N/A
2.7.1	In the United Kingdom, to protect against excessive currents and short-circuits in the PRIMARY CIRCUIT of DIRECT PLUG-IN EQUIPMENT, tests according to 5.3 shall be conducted, using an external protective device rated 30 A or 32 A. If these tests fail, suitable protective devices shall be included as integral parts of the DIRECT PLUG-IN EQUIPMENT, so that the requirements of 5.3 are met.		N/A
2.10.5.13	In Finland, Norway and Sweden, there are additional requirements for the insulation, see 6.1.2.1 and 6.1.2.2 of this annex.		N/A



IEC60950_1B - ATTACHMENT																											
Clause	Requirement - Test	Result - Remark	Verdict																								
3.2.1.1	<p>In Switzerland, supply cords of equipment having a RATED CURRENT not exceeding 10 A shall be provided with a plug complying with SEV 1011 or IEC 60884-1 and one of the following dimension sheets:</p> <table border="0"> <tr> <td>SEV 6532-2.1991</td> <td>Plug Type 15</td> <td></td> <td></td> </tr> <tr> <td>3P+N+PE</td> <td>250/400 V, 10 A</td> <td></td> <td></td> </tr> <tr> <td>SEV 6533-2.1991</td> <td>Plug Type 11</td> <td>L+N</td> <td></td> </tr> <tr> <td>250 V, 10 A</td> <td></td> <td></td> <td></td> </tr> <tr> <td>SEV 6534-2.1991</td> <td>Plug Type 12</td> <td>L+N+PE</td> <td></td> </tr> <tr> <td>250 V, 10 A</td> <td></td> <td></td> <td></td> </tr> </table> <p>In general, EN 60309 applies for plugs for currents exceeding 10 A. However, a 16 A plug and socket-outlet system is being introduced in Switzerland, the plugs of which are according to the following dimension sheets, published in February 1998:</p> <p>SEV 5932-2.1998: Plug Type 25 , 3L+N+PE 230/400 V, 16 A</p> <p>SEV 5933-2.1998: Plug Type 21, L+N, 250 V, 16A</p> <p>SEV 5934-2.1998: Plug Type 23, L+N+PE 250 V, 16A</p>	SEV 6532-2.1991	Plug Type 15			3P+N+PE	250/400 V, 10 A			SEV 6533-2.1991	Plug Type 11	L+N		250 V, 10 A				SEV 6534-2.1991	Plug Type 12	L+N+PE		250 V, 10 A					N/A
SEV 6532-2.1991	Plug Type 15																										
3P+N+PE	250/400 V, 10 A																										
SEV 6533-2.1991	Plug Type 11	L+N																									
250 V, 10 A																											
SEV 6534-2.1991	Plug Type 12	L+N+PE																									
250 V, 10 A																											
3.2.1.1	<p>In Denmark, supply cords of single-phase equipment having a rated current not exceeding 13 A shall be provided with a plug according to the Heavy Current Regulations, Section 107-2-D1.</p> <p>CLASS I EQUIPMENT provided with socket-outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a.</p> <p>If poly-phase equipment and single-phase equipment having a RATED CURRENT exceeding 13 A is provided with a supply cord with a plug, this plug shall be in accordance with the Heavy Current Regulations, Section 107-2-D1 or EN 60309-2.</p>		N/A																								



IEC60950_1B - ATTACHMENT			
Clause	Requirement - Test	Result - Remark	Verdict
3.2.1.1	<p>In Spain, supply cords of single-phase equipment having a rated current not exceeding 10 A shall be provided with a plug according to UNE 20315:1994.</p> <p>Supply cords of single-phase equipment having a rated current not exceeding 2,5 A shall be provided with a plug according to UNE-EN 50075:1993.</p> <p>CLASS I EQUIPMENT provided with socket-outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules, shall be provided with a plug in accordance with standard UNE 20315:1994.</p> <p>If poly-phase equipment is provided with a supply cord with a plug, this plug shall be in accordance with UNE-EN 60309-2.</p>		N/A
3.2.1.1	<p>In the United Kingdom, apparatus which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to BS 1363 by means of that flexible cable or cord and plug, shall be fitted with a 'standard plug' in accordance with Statutory Instrument 1768:1994 - The Plugs and Sockets etc. (Safety) Regulations 1994, unless exempted by those regulations.</p> <p>NOTE 'Standard plug' is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.</p>		N/A
3.2.1.1	<p>In Ireland, apparatus which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to I.S. 411 by means of that flexible cable or cord and plug, shall be fitted with a 13 A plug in accordance with Statutory Instrument 525:1997 - National Standards Authority of Ireland (section 28) (13 A Plugs and Conversion Adaptors for Domestic Use) Regulations 1997.</p>		N/A
3.2.4	<p>In Switzerland, for requirements see 3.2.1.1 of this annex.</p>		N/A
3.2.5.1	<p>In the United Kingdom, a power supply cord with conductor of 1,25 mm² is allowed for equipment with a rated current over 10 A and up to and including 13 A.</p>		N/A



IEC60950_1B - ATTACHMENT			
Clause	Requirement - Test	Result - Remark	Verdict
3.3.4	In the United Kingdom, the range of conductor sizes of flexible cords to be accepted by terminals for equipment with a RATED CURRENT of over 10 A up to and including 13 A is: • 1,25 mm ² to 1,5 mm ² nominal cross-sectional area.		N/A
4.3.6	In the United Kingdom, the torque test is performed using a socket outlet complying with BS 1363 part 1:1995, including Amendment 1:1997 and Amendment 2:2003 and the plug part of DIRECT PLUG-IN EQUIPMENT shall be assessed to BS 1363: Part 1, 12.1, 12.2, 12.3, 12.9, 12.11, 12.12, 12.13, 12.16 and 12.17, except that the test of 12.17 is performed at not less than 125 °C. Where the metal earth pin is replaced by an Insulated Shutter Opening Device (ISOD), the requirements of clauses 22.2 and 23 also apply.		N/A
4.3.6	In Ireland, DIRECT PLUG-IN EQUIPMENT is known as plug similar devices. Such devices shall comply with Statutory Instrument 526:1997 - National Standards Authority of Ireland (Section 28) (Electrical plugs, plug similar devices and sockets for domestic use) Regulations, 1997.		N/A
5.1.7.1	In Finland, Norway and Sweden TOUCH CURRENT measurement results exceeding 3,5 mA r.m.s. are permitted only for the following equipment: • STATIONARY PLUGGABLE EQUIPMENT TYPE A that is intended to be used in a RESTRICTED ACCESS LOCATION where equipotential bonding has been applied, for example, in a telecommunication centre; and has provision for a permanently connected PROTECTIVE EARTHING CONDUCTOR; and is provided with instructions for the installation of that conductor by a SERVICE PERSON; • STATIONARY PLUGGABLE EQUIPMENT TYPE B; • STATIONARY PERMANENTLY CONNECTED EQUIPMENT.		N/A



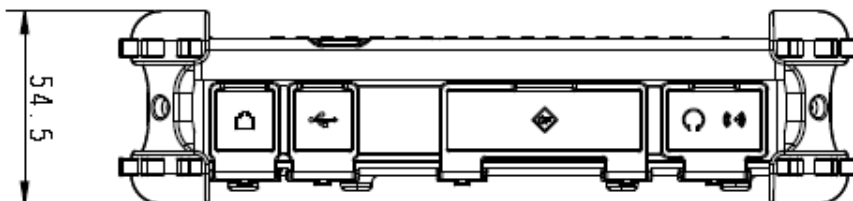
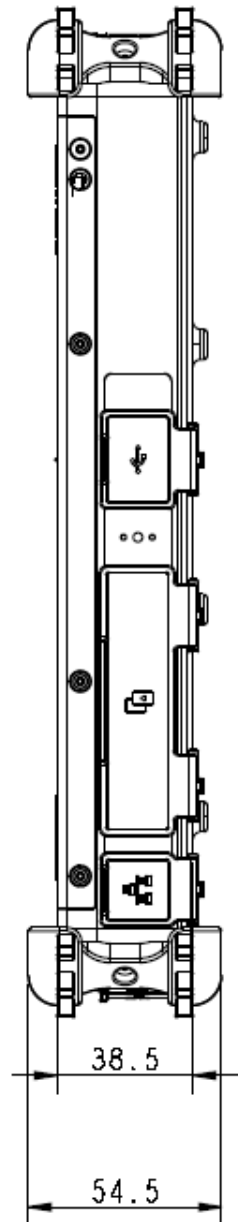
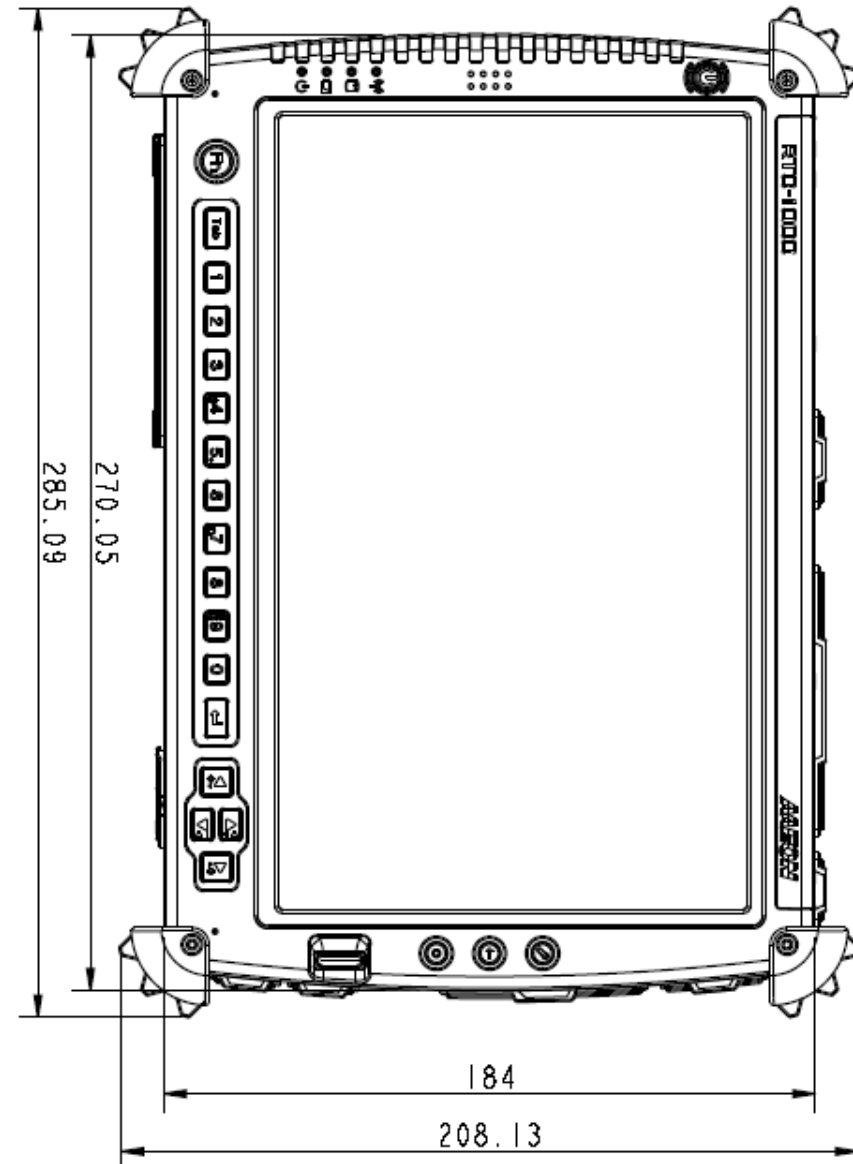
IEC60950_1B - ATTACHMENT			
Clause	Requirement - Test	Result - Remark	Verdict
6.1.2.1 (A1:2010)	<p>In Finland, Norway and Sweden, add the following text between the first and second paragraph of the compliance clause:</p> <p>If this insulation is solid, including insulation forming part of a component, it shall at least consist of either</p> <ul style="list-style-type: none">- two layers of thin sheet material, each of which shall pass the electric strength test below, or- one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below. <p>Alternatively for components, there is no distance through insulation requirements for the insulation consisting of an insulating compound completely filling the casing, so that CLEARANCES and CREEPAGE DISTANCES do not exist, if the component passes the electric strength test in accordance with the compliance clause below and in addition</p> <ul style="list-style-type: none">- passes the tests and inspection criteria of 2.10.11 with an electric strength test of 1,5 kV multiplied by 1,6 (the electric strength test of 2.10.10 shall be performed using 1,5 kV), and- is subject to ROUTINE TESTING for electric strength during manufacturing, using a test voltage of 1,5 kV. <p>It is permitted to bridge this insulation with an optocoupler complying with 2.10.5.4 b).</p> <p>It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2.</p>		N/A



IEC60950_1B - ATTACHMENT			
Clause	Requirement - Test	Result - Remark	Verdict
	<p>A capacitor classified Y3 according to EN 60384-14:2005, may bridge this insulation under the following conditions:</p> <ul style="list-style-type: none"> - the insulation requirements are satisfied by having a capacitor classified Y3 as defined by EN 60384-14, which in addition to the Y3 testing, is tested with an impulse test of 2,5 kV defined in EN 60950-1:2006, 6.2.2.1; - the additional testing shall be performed on all the test specimens as described in EN 60384-14; - the impulse test of 2,5 kV is to be performed before the endurance test in EN 60384-14, in the sequence of tests as described in EN 60384-14. 		N/A
6.1.2.2	<p>In Finland, Norway and Sweden, the exclusions are applicable for PERMANENTLY CONNECTED EQUIPMENT, PLUGGABLE EQUIPMENT TYPE B and equipment intended to be used in a RESTRICTED ACCESS LOCATION where equipotential bonding has been applied, e.g. in a telecommunication centre, and which has provision for a permanently connected PROTECTIVE EARTHING CONDUCTOR and is provided with instructions for the installation of that conductor by a SERVICE PERSON.</p>		N/A
7.2	<p>In Finland, Norway and Sweden, for requirements see 6.1.2.1 and 6.1.2.2 of this annex.</p> <p>The term TELECOMMUNICATION NETWORK in 6.1.2 being replaced by the term CABLE DISTRIBUTION SYSTEM.</p>		N/A
7.3	<p>In Norway and Sweden, for requirements see 1.2.13.14 and 1.7.2.1 of this annex.</p>		N/A
7.3	<p>In Norway, for installation conditions see EN 60728-11:2005.</p>		N/A

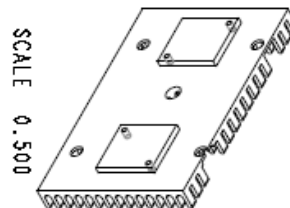
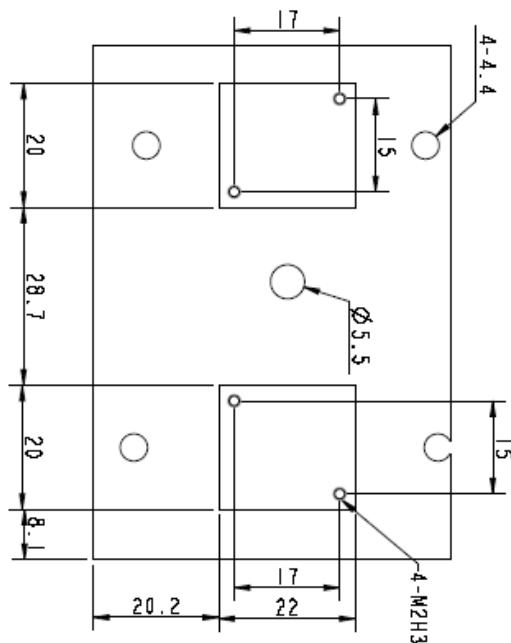
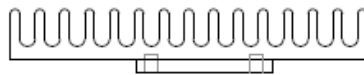
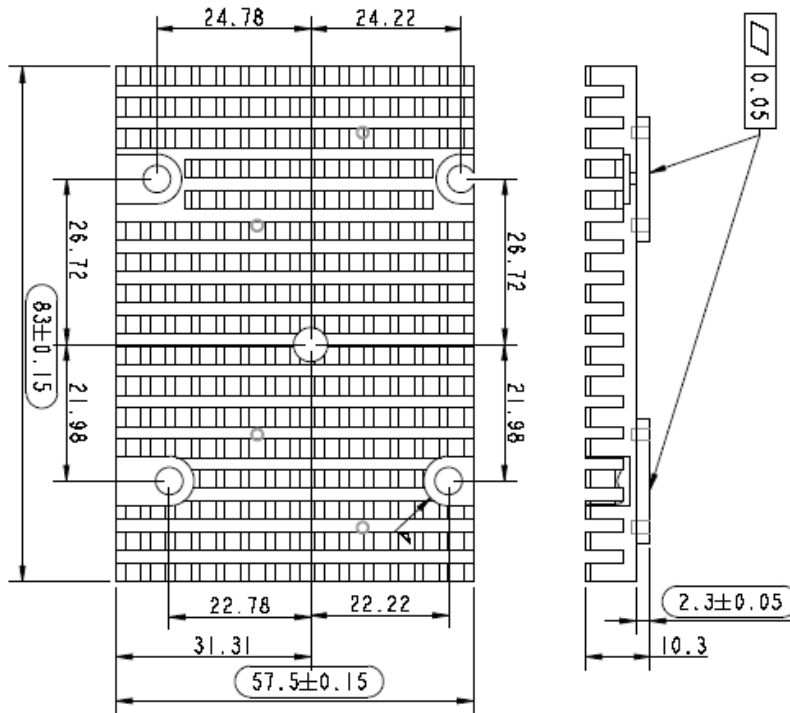


Appendix
(Enclosure-1 for Model RTC-1000AS)



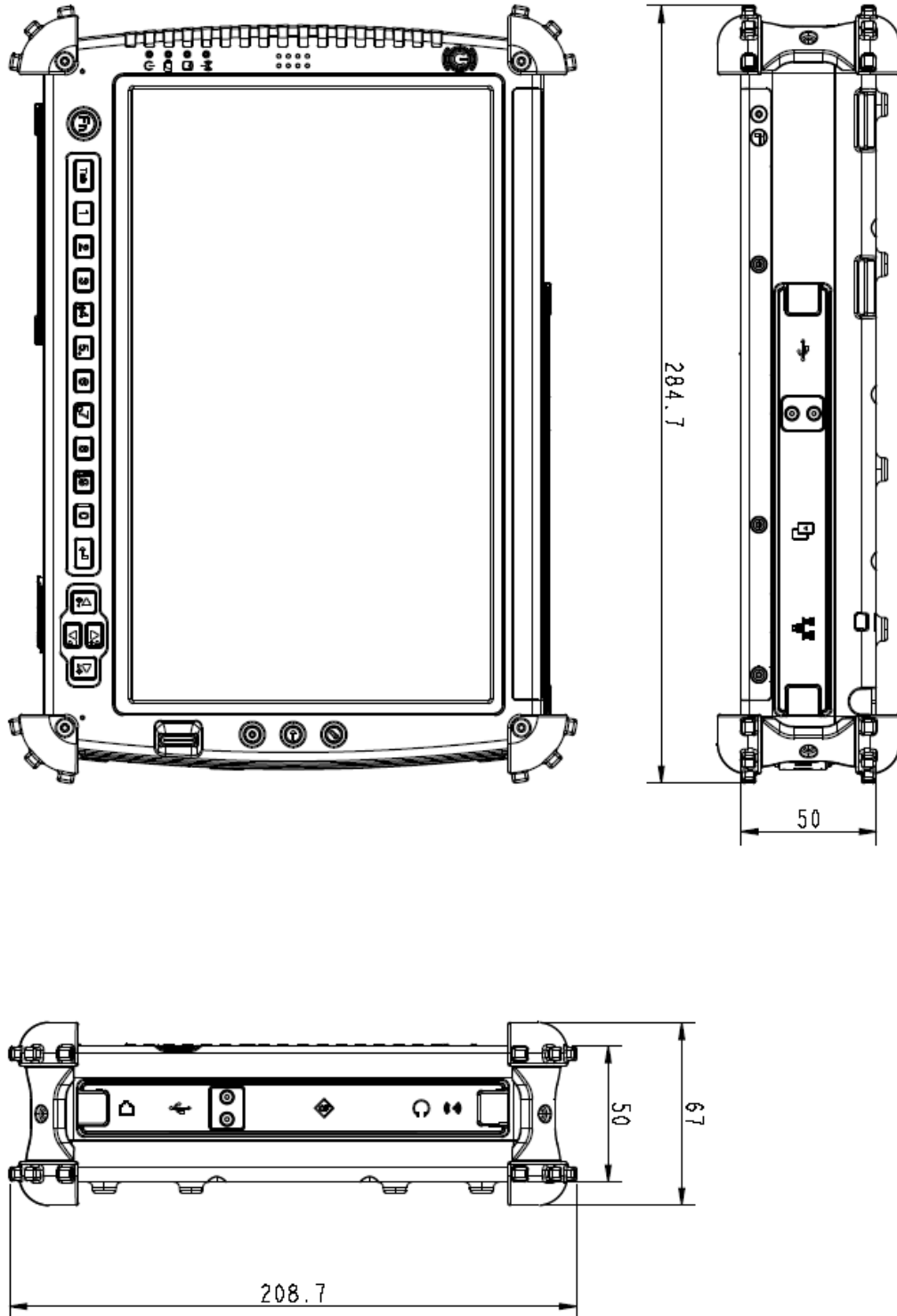


Appendix (CPU Heatsink for Model RTC-1000AS)



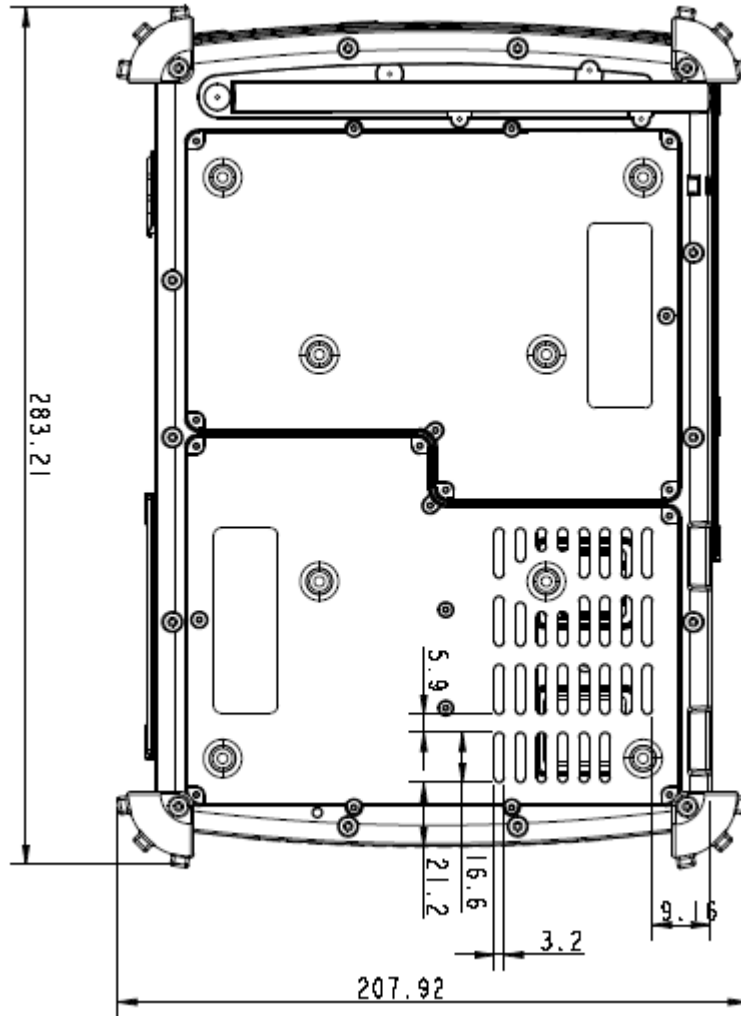


Appendix
(Enclosure-1 for Model RTC-1000D1)



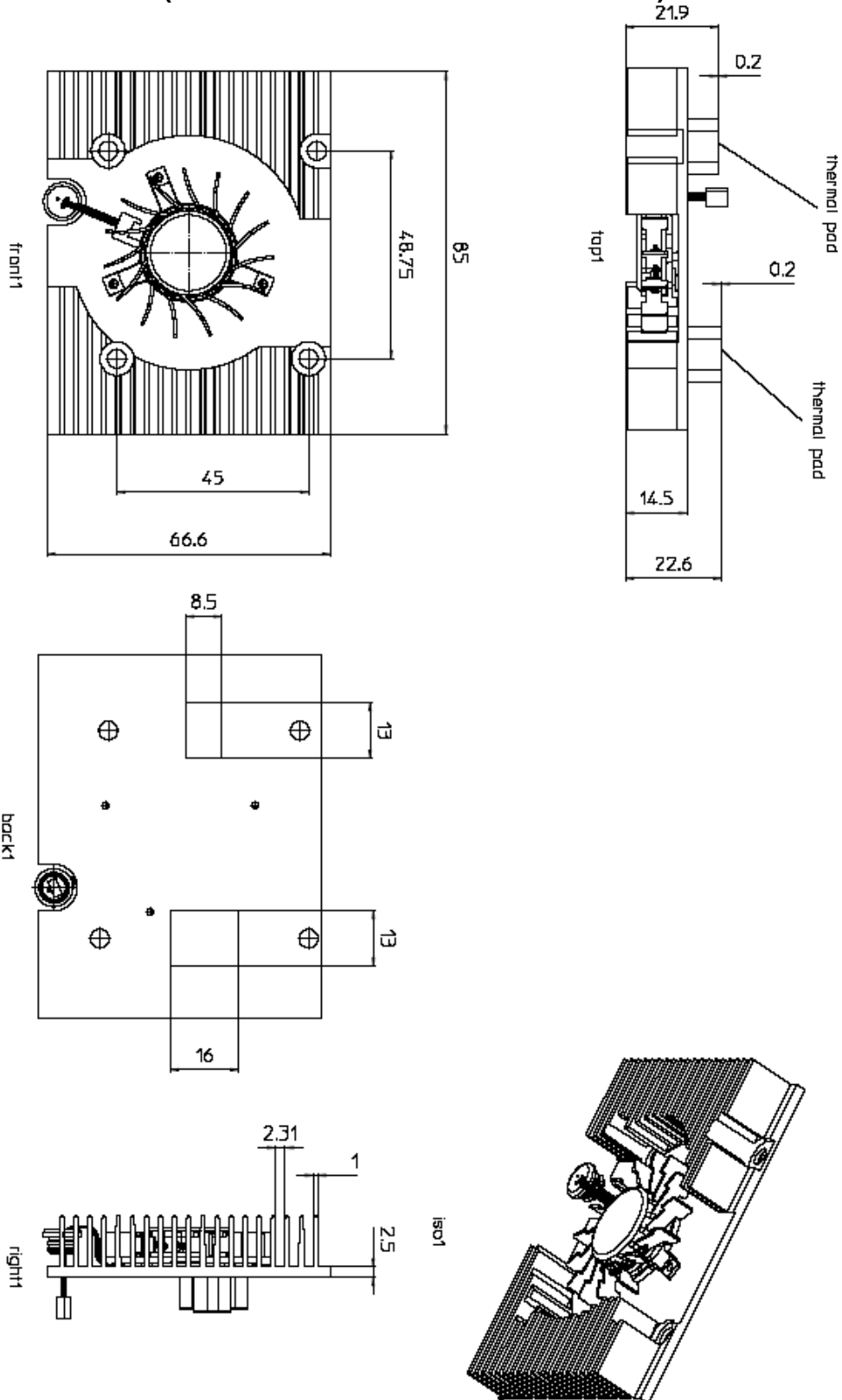


Appendix
(Enclosure-2 for Model RTC-1000D1)



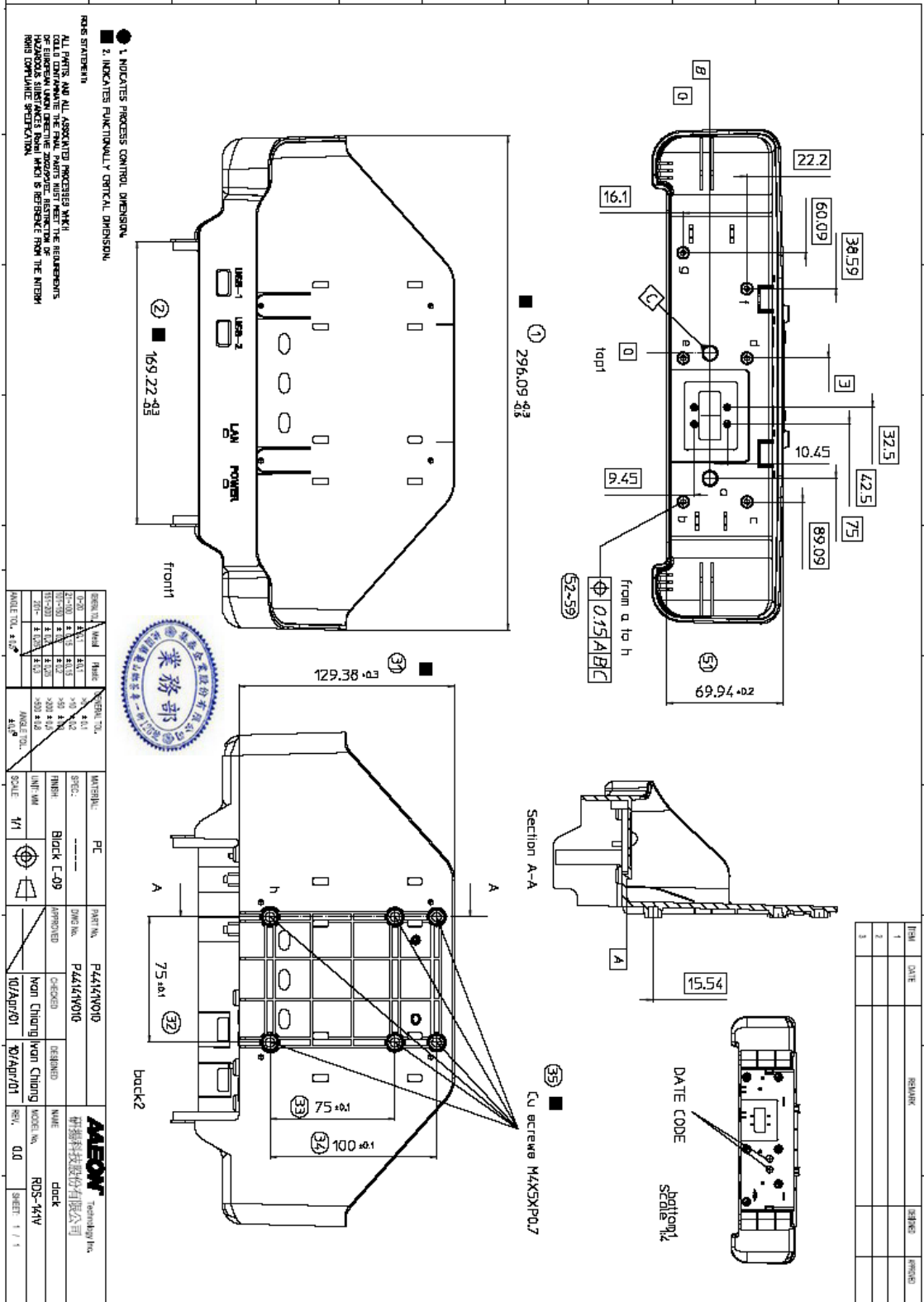


Appendix (CPU Heatsink for Model RTC-1000D1)





Appendix (Enclosure for Docking Station)





**Appendix
(Additional Table)**

2.10.3 and 2.10.4		TABLE: clearance and creepage distance measurements				Pass	
Clearance (cl) and creepage distance (cr) at/of/between:		U _{peak} (V)	U _{r.m.s.} (V)	Required cl (mm)	cl (mm)	Required cr (mm)	cr (mm)
FROM/TO							
For Model RTC-1000AS with Mother board A							
GND-Q9 pin S		--	5.11Vdc	--	--	--	--
GND-Q9 pin D		--	5.09Vdc	--	--	--	--
For Model RTC-1000D1 with Mother board B							
GND-Q22 pin S		--	5.05Vdc	--	--	--	--
GND-Q22 pin D		--	1.68Vdc	--	--	--	--
supplementary information: The following terminals were connected to earth: secondary return							

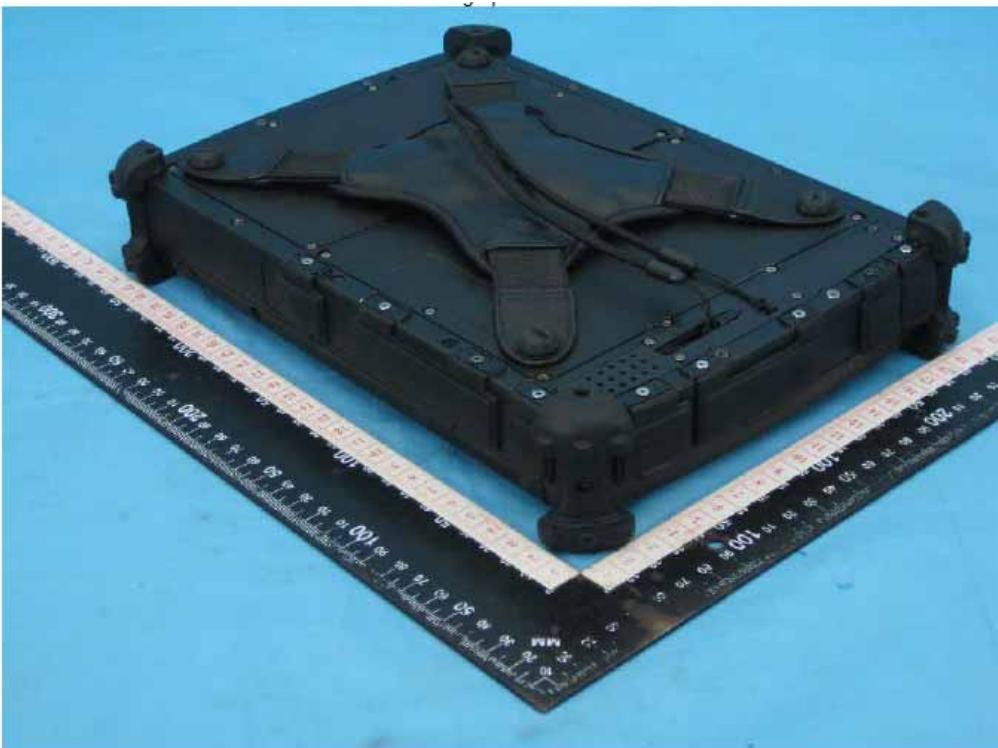
4.3.8	TABLE: Lithium Battery Reverse Current Measurement Test			Pass
Battery Type	Normal Reverse Charging Current (mA)	Abnormal Condition		Abnormal Reverse Current (mA)
For Model RTC-1000AS with Mother board A				
ML1220	0	R217 short		65
For Model RTC-1000D1 with Mother board B				
ML1220	0	R747 short		80

Table 5.1.8.3	LIMITATION OF TOUCH CURRENT DUE TO RINGING SIGNALS				Pass
Telecommunication Network Leads	Test Voltage	Touch Current (mA) from Telecommunication			
		N/C/N	N/C/R	R/C/N	R/C/R
For Power Supply Adapter, FSP065-RAB ,Model: RTC-1000AS					
Output connector	120	0.035	--	--	--
Metel Enclosure	120	0.001	--	--	--
For Power Supply Adapter, FSP065-RAB ,Model: RTC-1000D1					
Output connector	120	0.035	--	--	--
Metel Enclosure	120	0.001	--	--	--



Photos for Model RTC-1000AS:

Overall views





Connector views



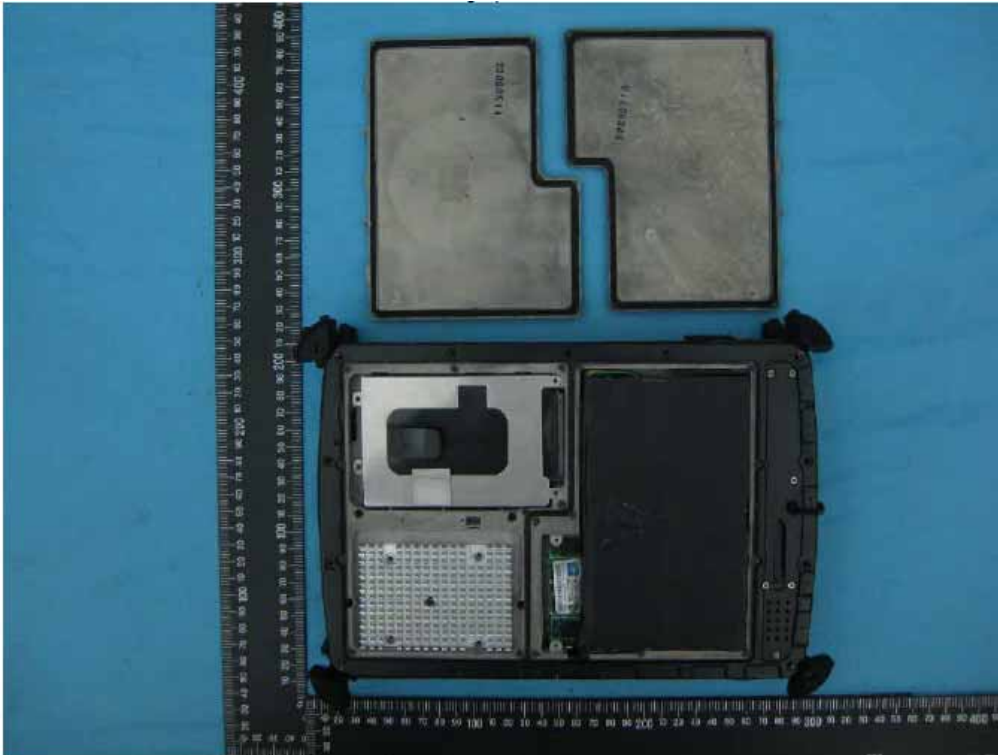


Connector view



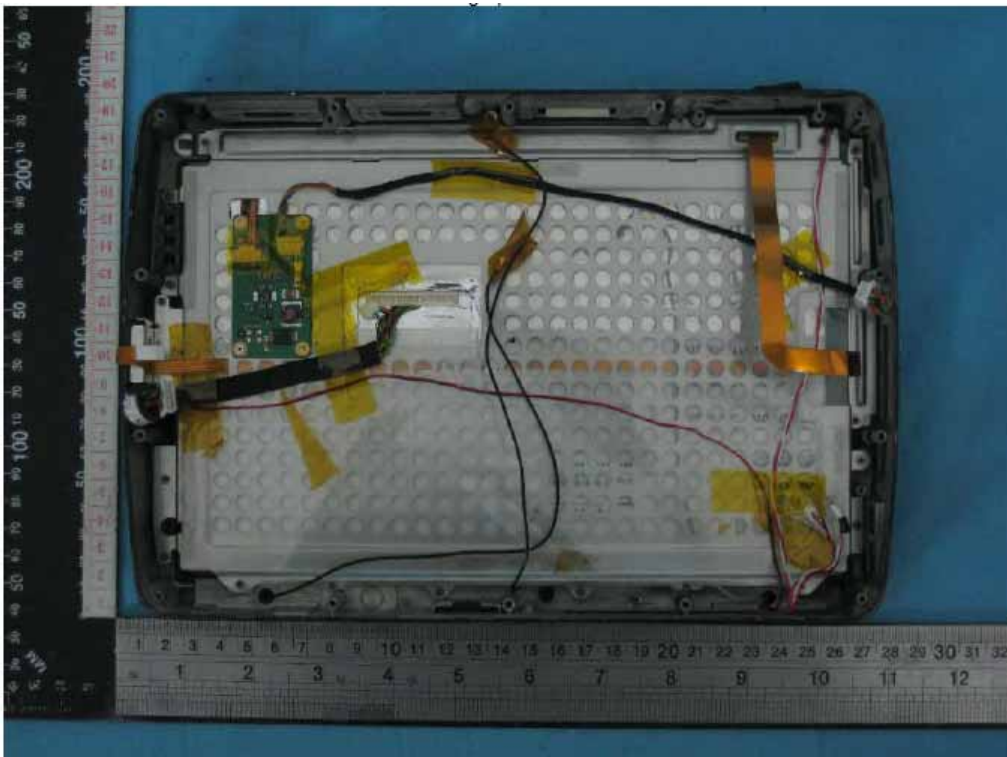


Internal Views





Internal Views



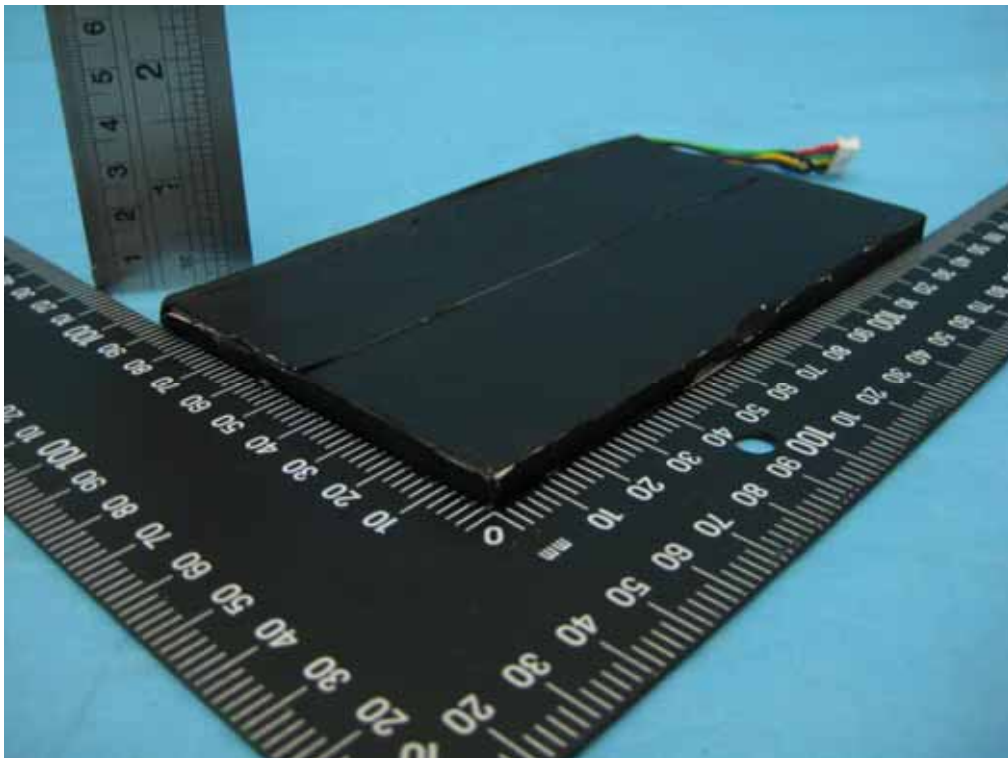


Mother board B views



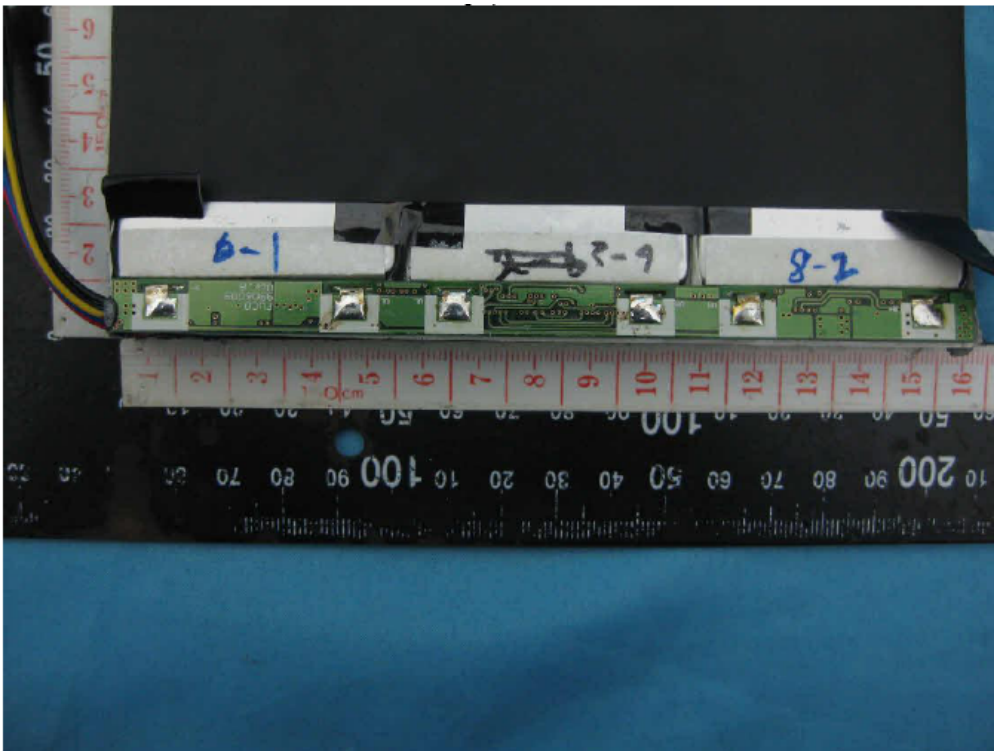


**Overall views for Lithium ion polymer rechargeable battery pack
(Formosan United Corporation / H705084)**



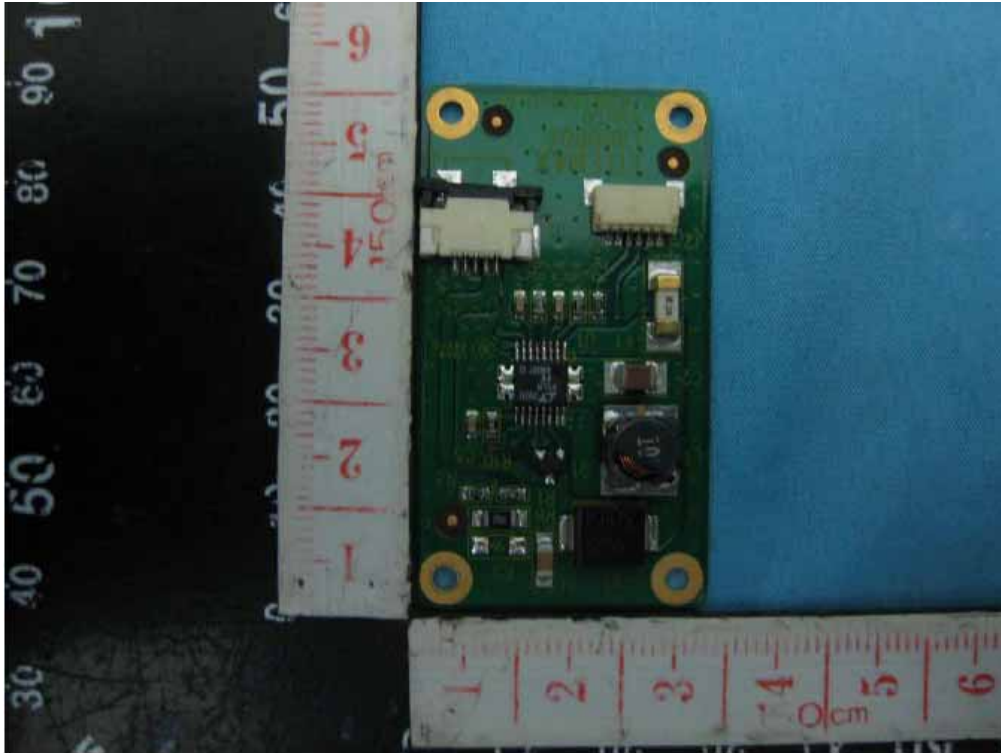


**Internal views for Lithium ion polymer rechargeable battery pack
(Formosan United Corporation / H705084)**





SELV board (DC/DC Converter) views





**Photos for Model RTC-1000D1:
Overall views**



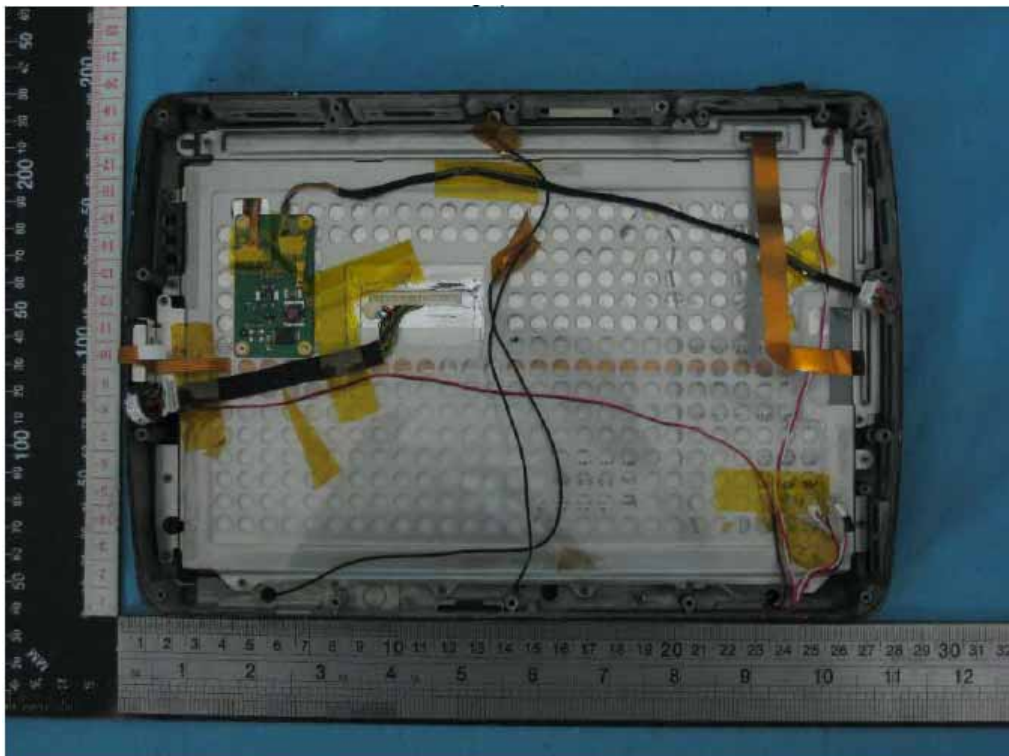


Internal Views





Internal Views







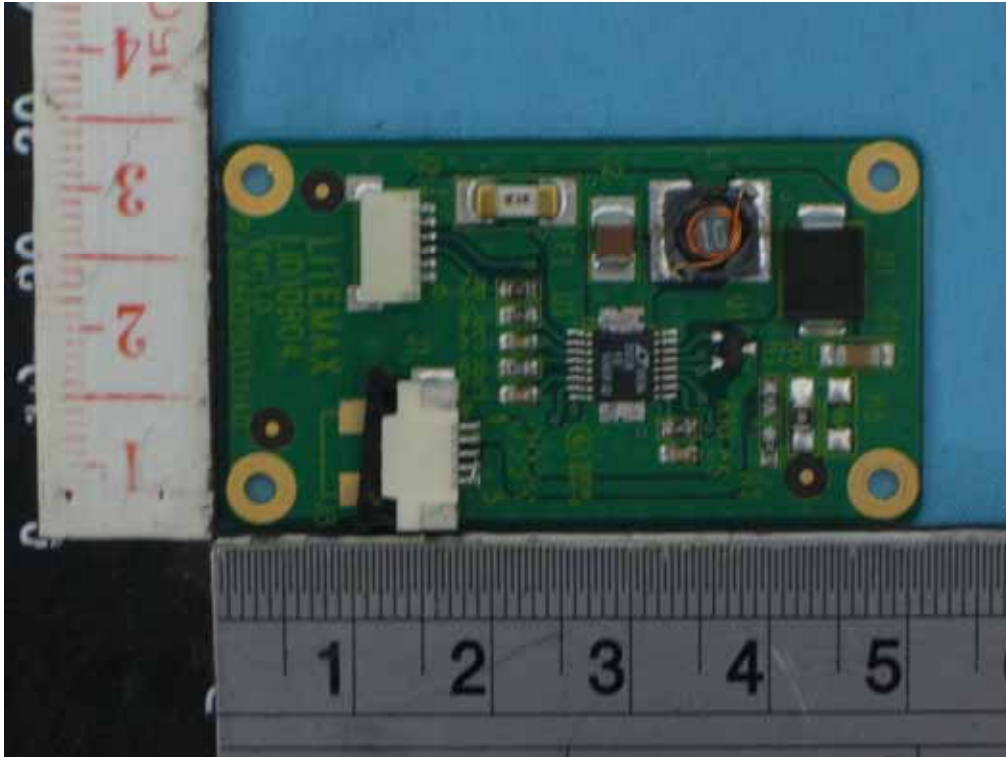


Mother board A views



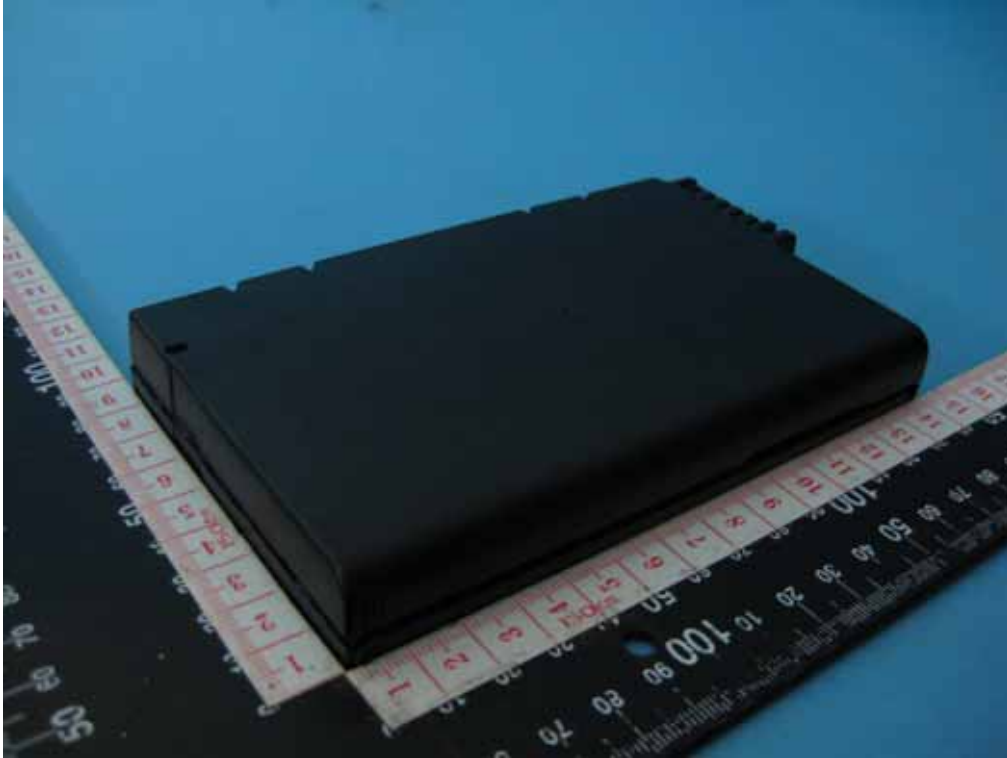


SELV board (DC/DC Converter) views





Overall views for Li-Ion Rechargeable battery pack (J.S Power Co., Ltd / DR202)



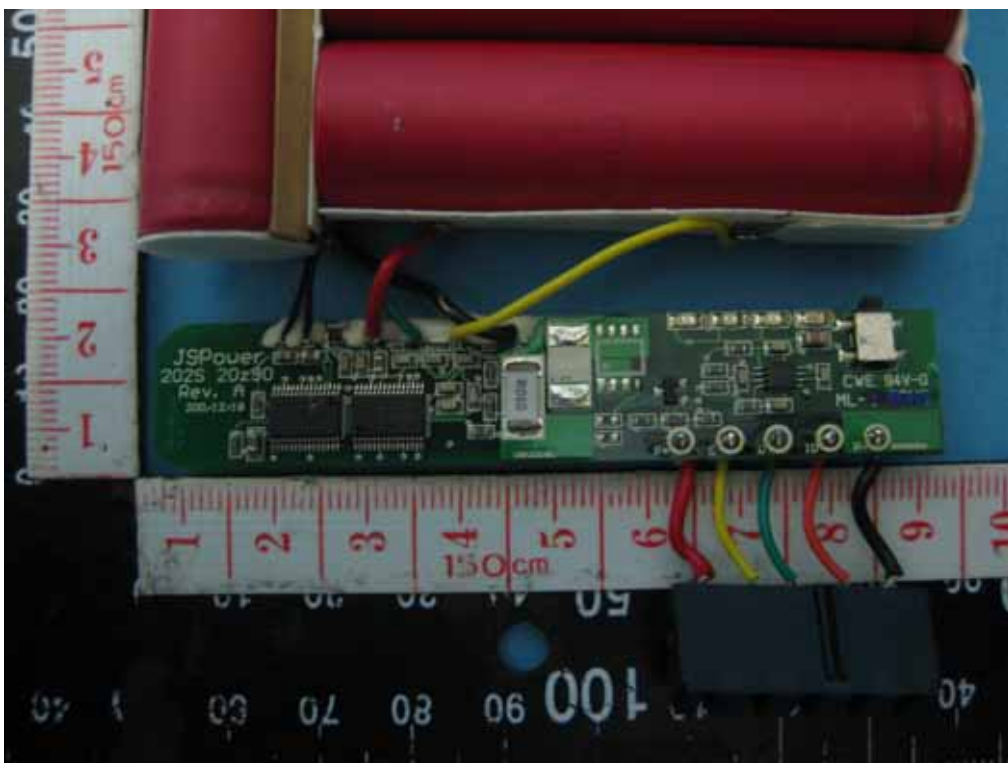
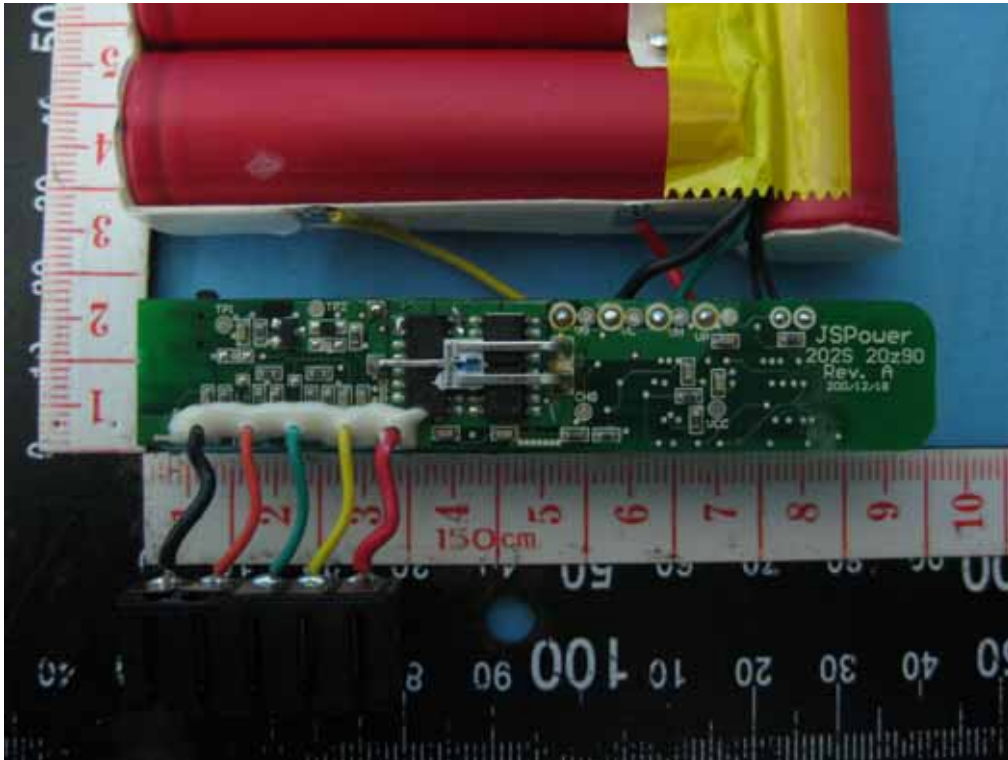


Internal Views of Li-Ion Rechargeable battery pack





Internal Views of Li-Ion Rechargeable battery pack





Photos for Docking Station

Overall views





Overall view





Internal view



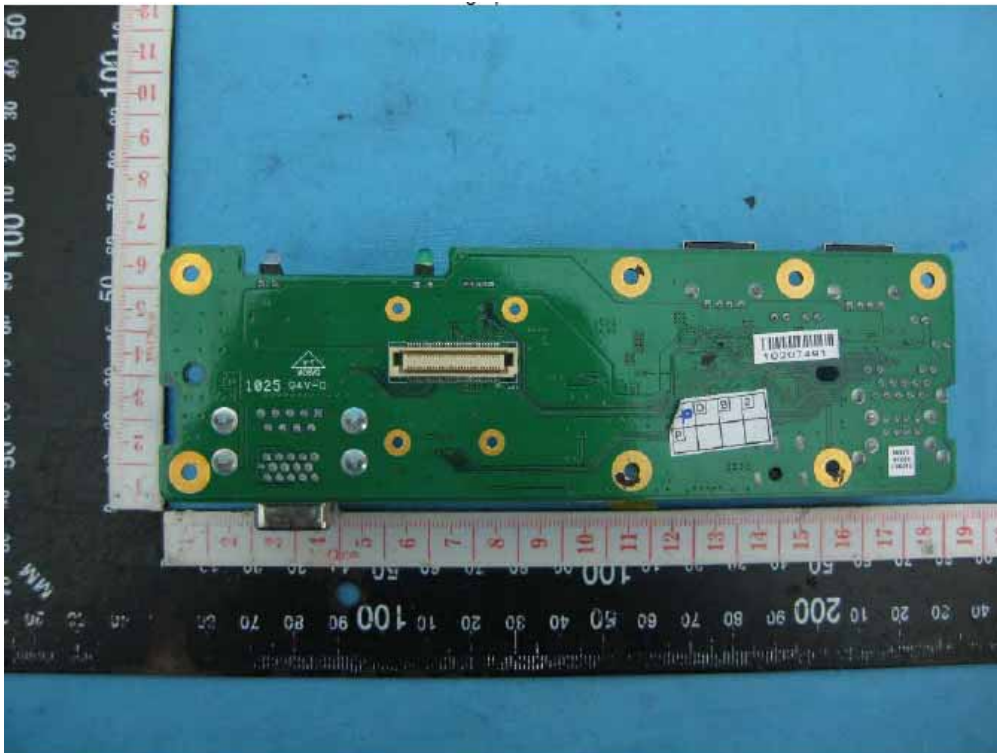
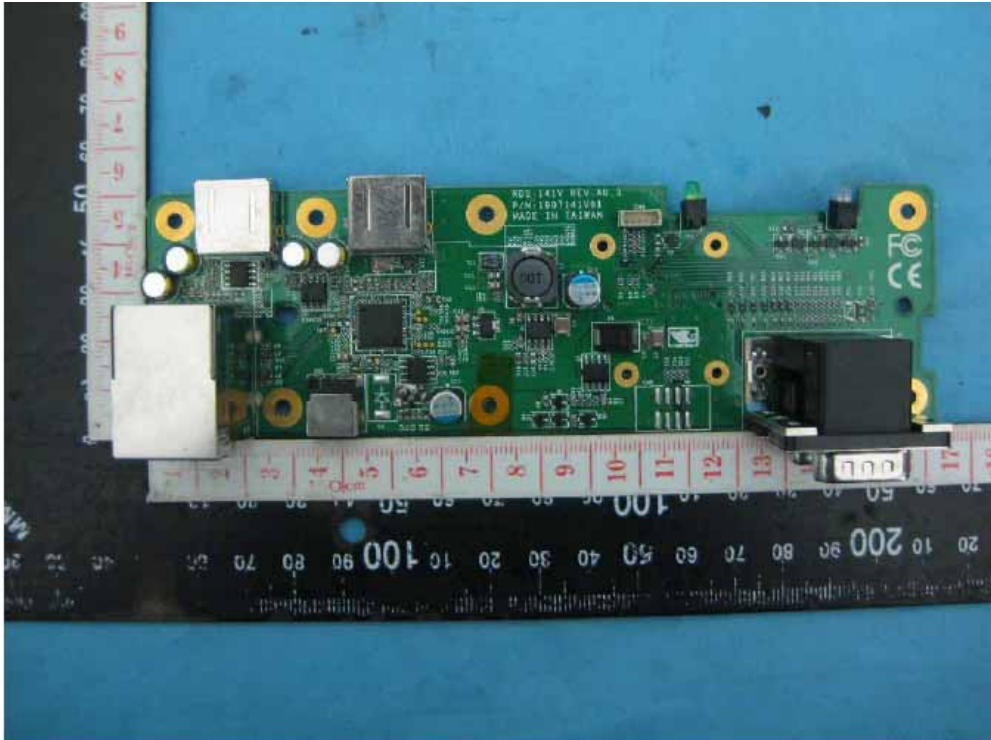


Connector views





Mainboard views





SELV board views

